

**2022 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

**ALABAMA POWER COMPANY
PLANT GORGAS
ASH POND**

January 31, 2023

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This 2022 Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Gorgas Ash Pond has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D) and ADEM Admin. Code Ch. 335-13-15 under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.

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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-096-GW, this 2022 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2022 semi-annual groundwater monitoring activities at the Plant Gorgas Ash Pond (Ash Pond) and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(e), and Part E of AO No. 18-096-GW. Semi-annual monitoring and associated reporting for Plant Gorgas Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

The CCR unit began the monitoring period in corrective action pursuant to § 257.98, ADEM Admin. Code r. 335-13-15-.06(9), and AO No. 18-096-GW. Statistically significant increases (SSI) of Appendix III constituents over background were identified in the results of the first detection monitoring event, and assessment monitoring was initiated in January 2018. Statistically significant levels (SSL) of Appendix IV parameters above groundwater protection standards (GWPS) were identified while in assessment monitoring. Consequently, an assessment of corrective measures (ACM) was initiated on January 13, 2019, and completed on June 12, 2019, according to the requirements of § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and AO No. 18-096-GW. The ACM was subsequently submitted to ADEM and posted to the Ash Pond (Site) CCR compliance website. A public meeting to discuss the ACM was held on July 1, 2020.

Since the submittal of the ACM extensive Site investigations have been performed to select effective corrective measures to address SSLs above GWPS. A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No. 18-096-GW and submitted December 16, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program describing implementation and monitoring of selected remedies at the Site was submitted on March 15, 2022.

SSLs of Appendix IV parameters arsenic, lithium, and molybdenum were detected above GWPS during the semi-annual monitoring events of 2022. The following summarizes results and activities conducted in 2022:

- Submitted 2021 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2022.
- Submitted the Corrective Action Groundwater Monitoring Program document on March 15, 2022.
- Completed the first semi-annual groundwater monitoring event between February 7, 2022, and March 4, 2022, which included the first round of sampling for the nineteen new or replacement compliance and delineation wells installed during the Fall of 2021
- Conducted a re-sampling event for combined radium 226 + 228 at select monitoring locations where outliers were suspected.
- Submitted the 2022 First Semi-Annual Groundwater Monitoring and Corrective Action Report on July 31, 2022.
- Collection of well precipitate samples, groundwater samples, and conducted geochemical modeling to determine feasibility of implementing geochemical manipulation (injections) north of the dam in the vicinity of wells GS-AP-MW-6S, GS-AP-MW-7, and GS-AP-MW-41HD. This approach, if feasible, could be used in-conjunction with permeation grouting to remediate area of highest concentration at the Site (July-August 2022).
- Completed the second semi-annual monitoring event between July 18, 2022, and August 11, 2022.

The CCR unit concluded the monitoring period in corrective action and APC has begun implementing the selected groundwater remedies identified in the Groundwater Remedy Selection Report submitted to ADEM in December 2021 and as detailed in the Corrective Action Groundwater Monitoring Program document. The following monitoring-related activities are planned for the CCR unit:

- Continue with phase 1 implementation of the Permeation Grouting Pilot Program for the remediation of arsenic, lithium, and molybdenum.
- Installation of continuous monitoring instrumentation for the monitoring of potential changes in field parameter data in response to ash pond closure activities.
- Evaluation of collected MNA parameter data.
- Conduct the first semi-annual monitoring event of 2023 and submit the semi-annual groundwater monitoring report summarizing the findings to ADEM by July 31, 2023.

**Executive Summary Table.
Monitoring Period Summary
Plant Gorgas - Ash Pond**

Assessment Monitoring Initiated: January 15, 2018
 Monitoring Period: January 1 - December 31, 2022
 Beginning Status: Corrective Action
 Ending Status: Corrective Action

Statistical Analysis Results *

Appendix III SSIs

| Parameter | Wells |
|-----------|--|
| Boron | GS-AP-MW-2, GS-AP-MW-6S, GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-21. |
| Calcium | GS-AP-MW-6S, GS-AP-MW-6D, GS-AP-MW-19. |
| Chloride | GS-AP-MW-2, GS-AP-MW-6S, GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-15, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-21. |
| Fluoride | GS-AP-MW-2, GS-AP-MW-15. |
| pH | GS-AP-MW-2, GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-21. |
| Sulfate | GS-AP-MW-2, GS-AP-MW-6S, GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-12, GS-AP-MW-16D, GS-AP-MW-19, GS-AP-MW-21. |
| TDS | GS-AP-MW-15, GS-AP-MW-17, GS-AP-MW-21. |

Appendix IV SSLs

| Parameter | Wells |
|------------|--|
| Arsenic | GS-AP-MW-6D, GS-AP-MW-7. |
| Lithium | GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-15, GS-AP-MW-21. |
| Molybdenum | GS-AP-MW-7. |

* See the attached report for further details regarding statistical exceedances and alternate source demonstrations.

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

Date Initiated: January 13, 2019
 Date Complete: June 12, 2019
 Public Meeting Date: July 1, 2020

Groundwater Remedy

Remedy Selection Date: December 17, 2021
 Initiated During Period: Yes
 Ongoing During Period: Yes

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

1.0 Introduction 1

2.0 Monitoring Program Status..... 2

3.0 Site Location and Description 3

 3.1 Physical Setting 3

 3.2 Site Geology and Hydrogeology..... 3

 3.2.1 Pottsville Formation – Rock Chemistry..... 5

 3.2.2 Uppermost Aquifer 7

 3.2.3 Flow Interpretation 7

 3.3 Groundwater Monitoring System 9

 3.3.1 Monitoring Wells..... 9

 3.3.1.1 Upgradient Wells 9

 3.3.1.2 Downgradient Wells 12

 3.3.1.3 Delineation Wells 13

 3.3.1.4 Piezometers..... 13

 3.3.1.5 Monitoring Well Replacement and Abandonment 14

 3.4 Groundwater Monitoring History 15

 3.4.1 Available Monitoring Data 16

 3.4.2 Historical Groundwater Flow 16

 3.4.3 Monitoring Variances 16

 3.5 Groundwater Sampling and Analysis 16

 3.5.1 Groundwater Sample Collection..... 17

 3.5.2 Sample Preservation and Handling..... 18

 3.5.3 Chain of Custody 18

 3.5.4 Laboratory Analysis..... 18

 3.5.5 Monitoring Period Sampling Events..... 18

| | | |
|---------|---|----|
| 4.0 | Groundwater Elevations and Flow | 20 |
| 4.1 | Groundwater Elevation Changes | 20 |
| 4.2 | Groundwater Flow Velocity Calculations | 22 |
| 5.0 | Evaluation of Groundwater Quality Data | 23 |
| 5.1 | Data Validation – Quality Assurance/Quality Control | 23 |
| 5.2 | Statistical Methodology and Tests | 24 |
| 5.2.1 | Appendix III Evaluation | 24 |
| 5.2.2 | Appendix IV Evaluation | 25 |
| 5.3 | Statistical Exceedances | 26 |
| 5.3.1 | Appendix III Constituents..... | 26 |
| 5.3.2 | Appendix IV Constituents | 26 |
| 5.3.2.1 | First Semi-Annual Groundwater Monitoring Event | 27 |
| 5.3.2.2 | Delineation Wells | 28 |
| 5.3.2.3 | Second Semi-Annual Groundwater Monitoring Event..... | 28 |
| 5.3.2.4 | Delineation Wells | 29 |
| 6.0 | Alternate Source Demonstration..... | 31 |
| 7.0 | Groundwater Assessment and Corrective Action..... | 33 |
| 7.1 | Chronology of Delineation Activities..... | 33 |
| 7.1.1 | Delineation Wells | 33 |
| 7.2 | Nature and Quantity of Release | 37 |
| 7.3 | Discussion of Delineation Results | 37 |
| 7.4 | Status of Delineation..... | 49 |
| 7.5 | Groundwater Remedy and Corrective Action..... | 50 |
| 7.5.1 | Groundwater Remedy Selection | 50 |
| 7.5.2 | Corrective Action – Groundwater Monitoring Program..... | 51 |
| 7.6 | Groundwater Quality Changes and trends | 56 |
| 8.0 | Summary and Conclusions | 60 |

9.0 References 61

LIST OF FIGURES

| | |
|------------|--|
| Figure 1 | Site Location Map |
| Figure 2 | Site Topographic Map |
| Figure 3 | Site Geologic Map |
| Figure 4A | Geologic Cross-Section A-A' |
| Figure 4B | Geologic Cross-Section B-B' |
| Figure 4C | Geologic Cross-Section C-C' |
| Figure 4D | Geologic Cross-Section D-D' |
| Figure 4E | Geologic Cross-Section E-E' |
| Figure 4F | Geologic Cross-Section F-F' |
| Figure 4G | Geologic Cross-Section G-G' |
| Figure 4H | Geologic Cross-Section H-H' |
| Figure 5 | Monitoring Well Location Map |
| Figure 6A | Potentiometric Surface Contour Map (February 7, 2022) – Water Table |
| Figure 6B | Potentiometric Surface Contour Map (February 7, 2022) – Pratt Aquifer |
| Figure 6C | Potentiometric Surface Contour Map (February 7, 2022) – American Aquifer |
| Figure 7A | Potentiometric Surface Contour Map (July 18, 2022) – Water Table |
| Figure 7B | Potentiometric Surface Contour Map (July 18, 2022) – Pratt Aquifer |
| Figure 7C | Potentiometric Surface Contour Map (July 18, 2022) – American Aquifer |
| Figure 8A | Arsenic Isoconcentration Map – Pratt Aquifer (February to March 2022) |
| Figure 8B | Arsenic Isoconcentration Map – American Aquifer (February to March 2022) |
| Figure 9A | Lithium Isoconcentration Map – Pratt Aquifer (February to March 2022) |
| Figure 9B | Lithium Isoconcentration Map – American Aquifer (February to March 2022) |
| Figure 10 | Molybdenum Isoconcentration Map (February to March 2022) |
| Figure 11A | Arsenic Isoconcentration Map – Pratt Aquifer (July-August 2022) |
| Figure 11B | Arsenic Isoconcentration Map – American Aquifer (July-August 2022) |
| Figure 12A | Lithium Isoconcentration Map – Pratt Aquifer (July-August 2022) |
| Figure 12B | Lithium Isoconcentration Map – American Aquifer (July-August 2022) |
| Figure 13 | Molybdenum Isoconcentration Map (July-August 2022) |

LIST OF TABLES

| | |
|----------|---|
| Table 1a | Compliance Monitoring Well Network Details |
| Table 1b | Delineation Well Network Details |
| Table 1c | Piezometer Well Network Details |
| Table 1d | Abandoned Well Network Details |
| Table 2 | Parameters and Reporting Limits |
| Table 3 | Groundwater Elevation Summary |
| Table 4a | Relative Percent Difference Calculations |
| Table 4b | Field QC: Blank Detections |
| Table 5 | Summary of Background Levels and Groundwater Protection Standards |
| Table 6 | First Semi-Annual Monitoring Event Analytical Summary |
| Table 7 | Second Semi-Annual Monitoring Event Analytical Summary |

LIST OF APPENDICES

| | |
|------------|-----------------------------------|
| Appendix A | Analytical Data Summary |
| Appendix B | Historical Groundwater Elevations |
| Appendix C | Laboratory and Field Records |
| Appendix D | Statistical Analyses |

ABBREVIATIONS

| | |
|-------|---|
| ACM | Assessment of Corrective Measures |
| ADEM | Alabama Department of Environmental Management |
| AL | Alabama |
| APC | Alabama Power Company |
| APCEL | APC Environmental Laboratory |
| ASD | Alternate Source Demonstration |
| ASTM | American Society for Testing and Materials |
| BGS | below ground surface |
| CCR | Coal Combustion Residual |
| CFR | Code of Federal Regulations |
| COC | chain of custody |
| DO | dissolved oxygen |
| EPA | United States Environmental Protection Agency |
| ft | feet |
| GW | groundwater |
| GWPS | Groundwater Protection Standard(s) |
| LCL | Lower Confidence Limit(s) |
| m | meter |
| mg/L | milligram per liter |
| MSL | mean sea level |
| MW- | denotes "Monitoring Well" |
| NAVD | North American Vertical Datum (1988 Reference) |
| NELAP | National Environmental Laboratory Accreditation Program |
| NTU | nephelometric turbidity unit |
| NCRDS | National Coal Resources Data System |
| ORP | oxidation reduction potential |
| pCi/L | picocuries per liter |
| PE | Professional Engineer |
| PG | Professional Geologist |
| PL | prediction limits |
| PQL | practical quantitation limit |
| PVC | polymerizing vinyl chloride |
| QA/QC | quality assurance/quality control |
| RL | reporting limit |
| RPD | relative percent difference |
| SM | Standard Method(s) |
| SSI | statistically significant increase |
| SSL | statistically significant level |
| TAL | Test America, Inc. |
| TOC | top of casing |

| | |
|------|---------------------------------|
| TDS | total dissolved solids |
| USGS | Unites States Geological Survey |
| UTLs | Upper Tolerance Limits |
| XRD | X-ray diffraction |
| XRF | X-ray fluorecence |

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and Administrative Order (AO) No. 18-096-GW this 2022 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2022 semi-annual groundwater monitoring activities at the Plant Gorgas Ash Pond (Ash Pond) and to satisfy the requirements of §257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(e), and Part E AO 18-096-GW. Semi-annual monitoring and associated reporting for the Ash Pond (Site) is performed in accordance with the monitoring requirements § 257.90 through § 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

Semi-Annual Groundwater Monitoring and Corrective Action Reports include an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018) and corrective action activities completed since the submittal of the Corrective Action Groundwater Monitoring Program (March 15, 2022).

2.0 MONITORING PROGRAM STATUS

The Site is currently in corrective action and APC will continue implementation of the selected groundwater remedies identified in the Groundwater Remedy Selection Report and the Corrective Action Groundwater Monitoring Program. In accordance with § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSLs of Appendix IV parameters were identified at the Gorgas Ash Pond during assessment sampling events. Pursuant to § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4.(i), APC completed an ACM in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and AO No. 18-096-GW. The ACM was completed June 12, 2019, and a public meeting was held to discuss the ACM on July 1, 2020.

In accordance with § 257.97(a), ADEM Admin. Code r. 335-13-15-.06(8)(a), and Part C of Administrative Order No. 18-096-GW, Semi-Annual Remedy Selection and Design Progress Report(s) were submitted beginning in December 2019. The semi-annual progress reports were prepared to describe the progress made in selecting and designing a remedy for the Site. A Groundwater Remedy Selection Report was prepared and submitted on December 16, 2021, to meet the requirements of 40 CFR § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No. 18-096-GW. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted on March 15, 2022.

In accordance with § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9), APC will continue semi-annual monitoring, including all monitoring wells in the certified groundwater monitoring system and any well installed to characterize the horizontal and vertical extent of SSLs. APC will continue with implementation of the groundwater remedies described in the Groundwater Remedy Selection Report and Corrective Action Groundwater Monitoring Program document.

3.0 SITE LOCATION AND DESCRIPTION

The Alabama Power Company (APC) William Crawford Gorgas Electric Generating Plant (Plant Gorgas) is in southeastern Walker County, Alabama, approximately 15 miles south of Jasper, at 460 Gorgas Road, Parrish, AL 35580. Based on visual inspection of USGS topographic quadrangle maps and GIS plant boundary files provided by SCS, the plant occupies portions of Sections 7, 8, 9, 16, 17, 18, 19, 20, 21, 28 and 29, Township 16 South, Range 6 West and Section 12, 13 and 24, Township 16 South, Range 7 West (USGS, 1975; USGS, 1983). The Ash Pond is located southeast of the main plant on the opposite side of the Black Warrior River. **Figure 1, Site Location Map**, depicts the location of the Plant and Ash Pond with respect to the surrounding area.

3.1 PHYSICAL SETTING

Plant Gorgas is in the Black Warrior River basin, an area typified by moderate relief, with river and stream valleys having dendritic drainage patterns. Elevations at the site range from approximately 260 feet above mean sea level (MSL) near the Mulberry Fork to over 600 feet MSL east of the Ash Pond. The Ash Pond occupies a localized, narrow valley where ground elevations are higher to the west, north, and east of the Ash Pond. Ground elevations typically range between 400 and 600 feet MSL and can have steep slopes down to the Ash Pond, which historically resides around elevation 380 ft MSL. **Figure 2, Site Topographic Map**, provides the topography of the Site.

3.2 SITE GEOLOGY AND HYDROGEOLOGY

Plant Gorgas lies in the Warrior Basin physiographic region (Sapp and Emplaincourt, 1975), a late Paleozoic basin formed as a result of flexure and sediment loading associated with Appalachian and Ouachita orogenies. The bedrock geology is dominated by clastic sedimentary rocks of the Upper Pottsville Formation as shown on **Figure 3, Site Geologic Map** (GSA, 2010b). The Upper Pottsville formation directly underlies Plant Gorgas and extends down to a depth of approximately 2,100 feet below ground surface. This formation is characterized by cyclic sequences (cyclothems) of marginal marine shale/claystone, siltstone, sandstone, conglomerates, and individual coal beds. These depositional cyclothems reflect the sediment balance controlled by 4th or 5th order glacial eustasy, continued basin evolution, and variations in sedimentation rates (Pashin and Raymond, 2004). Deeper stratigraphy is marked by carbonates, shales, chert, and sandstones of Mississippian to Cambrian age (Raymond et al., 1988).

The Plant Gorgas Ash Pond is directly underlain by rocks belonging to the Pratt Coal Group (Ward II et al., 1989) of the Lower Pottsville Formation. In general, the Pratt Coal Group consists of mudstone, shale, fine-grained sandstone, and interbedded coal in fining-upward sequences. Stratigraphically, at the Site, the Pratt Coal Group can generally be characterized as a (1) lower, coal measures interval, (2) a predominantly mudstone or shale interval, and (3) an upper sandstone interval. As indicated on geologic cross-sections provided in this report, only the lower, coal measures interval and mudstone/shale interval intersect or underlie the Ash Pond as the upper sandstone interval (as well as Cobb Group strata) typically forms the caprock for ridges on either side of the Ash Pond.

The Pratt Coal Group generally contains three named coal seams, each separated by 25 to 50 feet of intra-burden. In descending order, they are, the Pratt, Nickel Plate, and American coal seams. Locally, Pratt Coal Group strata gently dip to the south and south-southwest. As noted in the Supplemental Site Hydrogeological Characterization Report submitted in March 2021 (SCS, 2021) local variations in dip direction and magnitude are observed at the site and may be attributable to localized fault displacement, elevations at the time of deposition, and potential presence of a synclinal structural feature. The top of the Pratt Coal Group occurs at depths between 70 and 225 feet below ground surface or at elevations between 350 and 240 feet MSL. Pratt coals generally fit the following patterns:

- Beneath the site, the Pratt coal is generally 3 to 4-ft thick and overlies the Nickel Plate Seam, separated by a 10 to 12-ft sequence of claystone grading downward to sandstone.
- Locally, the Nickel Plate seam is not very prominent and is generally under 1.5 feet in thickness.
- The American seam generally resides 15 and 25 feet beneath the Nickel Plate Seam and is separated primarily by a sandstone bed. The American seam generally thickens towards the south where it was underground mined (Maxine Mine).

Figures 4A-4H, Geologic Cross-Sections, provide an illustration of the Pottsville strata underlying the site.

The Pottsville aquifer system is the primary aquifer in Walker County. Although on a regional scale there are other aquifer systems in the vicinity of Plant Gorgas, the Pottsville aquifer system is the most significant. The nearest exposure of the Valley and Ridge aquifer system occurs in central Jefferson County, approximately 25 miles east of Plant Gorgas. The nearest exposure of the Tuscaloosa aquifer system occurs in northwesternmost Walker County, approximately 30 miles northwest of Plant Gorgas. The Tuscaloosa aquifer system is not considered a primary source of groundwater in Walker County (Stricklin, 1989).

The Pottsville aquifer system is composed primarily of Pennsylvanian-aged sandstones, shales, conglomerates, and coal. Groundwater flow primarily occurs through coal seams or rock fabric discontinuities such as bedding planes and fractures. Groundwater in the Pottsville aquifer system is commonly regarded as confined due to large permeability contrasts within the aquifer (Stricklin, 1989). Recharge to the Pottsville formation is largely through infiltration of precipitation and to a lesser extent, downward seepage of river water at hydraulically favored locations.

Regionally, recharge is accommodated largely by fracture enhanced permeability. Major recharge zones to the Pottsville Formation are related to major geologic structures such as large fault zones or along systematic fold axes (Pashin, 2007). Although the Pottsville aquifer system is the primary aquifer in Walker County, groundwater use is relatively limited. According to O’Rear et al., 1972, groundwater use accounted for approximately 15% of total water use in Walker County in 1966. By 2005, groundwater use had declined to less than 1% of total water use in Walker County, or 1.14 million gallons per day (mgd) of groundwater out of a total water use of 969.5 mgd (USGS, 2005).

3.2.1 Pottsville Formation – Rock Chemistry

Published data indicate that elevated arsenic concentrations occur in the Southern Appalachian coal strata where site monitoring wells are screened. Numerous publications document elevated trace metals in Pottsville and Pottsville coal strata (Kolker et al., 1999, Diehl et al., 2004, Goldhaber et al., 2002). For instance, according to the USGS National Coal Data System (NRCDS), the average concentration of arsenic (72 parts per million (ppm)) in the Pottsville coal strata is three times that of the average of other coal basins (Bragg et al., 1997). Of the U.S. coal analyses for arsenic that are at least three standard deviations above the mean, approximately 90% are from the coal fields of Alabama (Diehl et al., 2004). The United States Geological Survey (USGS) maintains an inventory of coal quality that includes trace metal concentration data. It shows arsenic concentrations range from 1.08 milligrams per kilograms (mg/kg) to 611.0 mg/kg with a mean of 47 mg/kg for Walker County (USGS Coal Quality Database).

Similarly, 75 Pratt Coal Group samples (Pratt, Nickel Plate, and American coal seams) analyzed by the USGS and inventoried in the USGS National Coal Data System (NRCDS) showed the following ranges of other trace metals:

- Boron – 6.3 to 83.6 ppm (average of 35 ppm).
- Cobalt – 1.6 to 19.8 ppm (average of 8 ppm).
- Molybdenum – 0.8 to 22.2 ppm (average of 5 ppm).

- Lithium – 1.4 to 128 ppm (average of 28 ppm).

Bulk geochemical analyses of Pottsville stratigraphy from the Site and of the Pratt and American coal seams from Plant Gorgas were conducted on recovered core. The data reflect arsenic concentrations between 4.9 mg/kg and 32.6 mg/kg in siltstone/mudstones and concentrations of 28.9 and 384.4 mg/kg in two coal seams analyzed. The average arsenic concentration was roughly 34 mg/kg in these samples tested, which is in good agreement with data observed in the USGS Coal Quality Database.

Similarly, 17 Pratt Coal Group samples collected from the Site provided the following ranges of other trace metals:

- Boron – 20.8 to 114 ppm (average of 49 ppm).
- Cobalt – 4.2 to 18.2 ppm (average of 14 ppm).
- Molybdenum – 1.0 to 4.4 ppm (average of 2 ppm).

During the first part of 2022, a robust study of the composition of Pottsville Formation (Pratt, Gillespy, and Mine Spoil derivatives) at the nearby Plant Gorgas Gypsum Pond, found the following concentrations in rock and mine spoil materials:

- Lithium – 30 to 367 ppm (average of 128 ppm).
- Arsenic – 7 to 79 ppm (average of 32 ppm).
- Molybdenum – 0.67 to 9.8 ppm (average of 3 ppm).

Trace metal enrichment and pyrite origins have been linked to post-depositional (post-coalification) deformation and trace metal laden hydrothermal fluids upwelling during Alleghanian tectonism. Diehl et al., (2004) and Goldhaber et al., (2002) describe “high-pyrite” coals as a source of elevated arsenic and other trace metals. In these publications, pyrite occurrence is observed within coal banding, woody cellular fill structures, mineral overgrowths, and structural fills such as veins and microfaults. The geogenic lithium study at the Plant Gorgas Gypsum Pond (July 2022), observed strong correlations between mica and clay mineral abundance and lithium concentrations as well as secondary lithium associated primarily with sorption on iron oxides.

In areas where strip mining occurred (north of ash pond dam, west of the ash pond), the process of strip mining and backfilling these materials can increase the availability of trace metals to groundwater. These mining processes and practices lead to the physical weakening and enhanced weathering of rock which along with changed hydrodynamics can lead to elevated and highly variable concentrations across a historic

mine site. Increased acidity in groundwater, when present, can also help to mobilize constituents – especially in mine spoil materials.

3.2.2 Uppermost Aquifer

The Pottsville aquifer system is the uppermost aquifer beneath the site for groundwater monitoring purposes. Groundwater occurs in the Pratt Coal Group of the Upper Pottsville Formation at the site. The primary occurrences of groundwater in the uppermost aquifer are: (1) coal seams, (2) rock fractures or zones of fracture enhanced permeability, and to a lesser extent (3) bedding planes. Fractured intervals are sparse across the site as defined by caliper logging and tend to occur with greater density in the upper 100 feet of rock.

Groundwater yield at the site is considered low and typical of the Pottsville aquifer system in areas without major geologic structures. Wells were generally screened in the Pratt coal seam or across groundwater yielding fractures. Depth to groundwater producing zones were highly variable at the site and typically ranged from 30 to 240 feet BGS. Caliper, natural gamma, normal resistivity, fluid temperature, fluid resistivity logs, and heat pulse flowmeter logs were used to determine groundwater yielding zones. Packer testing was used in select borings to further enhance characterization.

Based on published data, groundwater quality produced from the Pottsville Formation can be characterized by high concentrations of sulfate, iron, and other trace metals (Jennings and Cook, 2010). Trace metals in Pottsville Formation groundwater are associated with sulfide minerals contained in organic-rich strata (e.g., mudstones and coal seams) and siliceous/carbonate healed fractures and joints. Trace element enrichment is the result of migrating hydrothermal fluids generated during the late Paleozoic Allegheny orogeny (Diehl et al., 2004). Arsenic, antimony, molybdenum, selenium, copper, thallium, and mercury are elevated in Warrior Basin coal strata (Goldhaber et al., 2002).

3.2.3 Flow Interpretation

Groundwater flow is accomplished primarily by means of fracture flow, where groundwater flows along more conductive secondary discontinuities in the rock mass such as joints or cleat fabric in coal seams. Fracture flow in complex geologic media such as the heterogenous Pottsville Formation can be complex. Groundwater in the Pottsville aquifer is most commonly regarded as confined due to large permeability contrasts within the aquifer (Stricklin, 1989). The Pottsville at the Site is probably better described as a series of discrete, confined to semi-confined, groundwater yielding zones where groundwater elevations

can vary significantly laterally and vertically and are governed by the heterogeneity of the lithology and degree of fracture network interconnectivity.

At the Site, the groundwater flow regime is now grouped into three general flow systems: (1) shallow water-table flow system, (2) Pratt Coal flow system, and (3) American Coal flow system. At higher stratigraphic intervals (water-table flow system), groundwater flows towards the Ash Pond or other surface water bodies. This flow system is driven by gravity and mimics the topography of the site. Within deeper rock strata such as coals of the Pratt Group (Pratt Coal Group or deep bedrock flow system), groundwater flows radially away from the site.

Based on structural elevations and dip, the American coal seam would intercept the base of the pond between the ash pond and splitter dike and the Pratt coal seam would intercept the base of the pond near its' geographic center proximal to wells GS-AP-MW-12 and GS-AP-MW-1. The more permeable coal measures underlie the northern half of the ash pond before dipping below its' base towards the south (the southern half of the ash pond is underlain by mudstone/shale interval). Radial flow is interpreted to emanate proximal to this intersection.

Except for the far northern portion of the Ash Pond, conceptually, there is likely to be little hydraulic communication with strata deeper than the sandstone unit immediately underlying the American Coal Seam (American Coal Flow System). Below this interval, a low permeability mudstone to interbedded mudstone-sandstone unit likely forms a barrier to vertical migration of groundwater as hydraulic conductivity values in the 10^{-7} centimeter per second (cm/s) range are reported for shales at the site as derived from packer testing. This interval reflects the transition to Gillespy Coal Group.

However, to the north and underlying the Ash Pond dam, strong hydraulic gradients likely force groundwater along vertical fractures and bedding planes through the upper part of the Gillespy Coal Group. Geophysical and hydrophysical logs obtained in well locations north of the dam suggest that three to four discrete bedding planes occurring between 30 and 90 ft BGS transmit groundwater. The most prominent typically occurring at a depth of 49 to 56 ft BGS (likely Gillespy equivalent; approximately 100 feet below American Coal Seam). These discrete zones occur in the upper part of the Gillespy Coal Group and appear to dip approximately 2.1° southwest. Geophysical signatures of flow diminish greatly in between and below these intervals. Failed attempts at deeper well locations along with the geophysical logs suggest little or no groundwater flow at elevations below 160 feet MSL. Strong upward vertical gradients are observed in paired well locations (see groundwater elevations in MW-6S/6D and MW-41HS/HD pairs) installed north of the ash pond dam. Potentiometric data suggests upward vertical flows along with northerly lateral flow.

Forty-three packer tests were conducted resulting in a range of hydraulic conductivity (k) values from an estimated low of 7×10^{-7} cm/sec to a high of 4×10^{-3} cm/sec, with most tests (31) in the moderate range (10^{-5} cm/sec to 10^{-4} cm/sec), two test results in the more permeable range (10^{-3} to 10^{-2} cm/sec), and ten test results in the less permeable range (10^{-6} cm/sec). There is a general trend of decreasing estimated hydraulic conductivity with depth. Packer test results vary over 4 orders of magnitude. Test intervals at the high end of the data range are associated with weathered discontinuities (fractures/joints). Moderate values are associated with minor fractures or bedding planes. The lowest values are associated with more shale intervals without substantial fractures. Test intervals with coal seams are in the moderate to high end of the data range.

3.3 GROUNDWATER MONITORING SYSTEM

Pursuant to 40 CFR § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Gorgas has installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer. The certified groundwater monitoring system for the Plant Gorgas Ash Pond is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. Wells were located to serve as upgradient, and downgradient monitoring locations based on groundwater flow direction as determined by the potentiometric surface elevation contour maps. All groundwater monitoring wells were designed and constructed using “Design and Installation of Groundwater Monitoring Wells in Aquifers,” ASTM Subcommittee D18.21, as a guideline.

3.3.1 Monitoring Wells

Well locations at the site are designated as upgradient, downgradient, piezometer (water-level only), vertical delineation, and horizontal delineation. The following subsections provide a summary of well designations and if applicable, changes or modifications to the well network or designations. As described in the site Groundwater Monitoring Plan, modifications to the well network or designation must first be approved by ADEM.

The location and designation of Site wells are presented in **Figure 5, Monitoring Well Location Map.**

3.3.1.1 Upgradient Wells

To evaluate upgradient well locations at the Site, groundwater elevations and CCR indicator parameters were reviewed. As described in **Section 3.2.3**, there are multiple groundwater flow regimes within the Pottsville Formation at the Site: (1) an upper groundwater flow system found at higher elevations (water-

table flow system) and (2) a deeper groundwater flow system composed of Pratt Coal Group strata that also represents the uppermost aquifer beneath the Ash Pond.

Historically, two upgradient well locations (GS-AP-MW-8 and GS-AP-MW-13) screened in the upper groundwater flow system have been used for statistical comparison of groundwater quality. The upper groundwater flow system corresponds to younger or recharging groundwater and groundwater elevations are greater than those of the Ash Pond. Groundwater flows towards the Ash Pond or other surface water bodies. Spatially, these locations are among downgradient compliance wells but are screened across fractures that occur at higher elevations and are not hydraulically connected to downgradient flow away from the Ash Pond.

Appendix III (detection monitoring parameters) constituent concentrations, along with select other Appendix IV CCR indicator parameters, were also evaluated as further basis for designating locations GS-AP-MW-8 and GS-AP-MW-13 as upgradient. In general, concentrations of CCR indicator parameters reported for these well locations are well below published Groundwater Protection Standards (GWPS), downgradient wells, and pore-water (source) concentrations. The absence of elevated concentrations of CCR indicator parameters indicates younger, recharging groundwater and groundwater that has not been impacted by groundwater flowing away from the Ash Pond. The data, along with groundwater elevation data, support an upgradient designation for locations GS-AP-MW-8 and GS-AP-MW-13. Upgradient location GS-AP-MW-13 was abandoned in 2019. Historical data collected from this location will still be used for statistical comparison of groundwater quality data.

Location GS-AP-MW-17V was originally intended for vertical delineation but was screened at a higher elevation due to encountering the underlying Maxine Mine at depth and identifying more shallow groundwater flow. Groundwater elevations at GS-AP-MW-17V indicate this location is upgradient of the Ash Pond with groundwater elevations roughly 35 feet higher than the Ash Pond. This location was proposed as an additional upgradient location in an updated Groundwater Monitoring Plan submitted to ADEM in April 2020 (revised August 2020 and March 2021).

During the Fall of 2021, replacement monitoring well GS-AP-MW-18R was installed across a shallow water-bearing fracture. Initial groundwater elevations demonstrate that this well location is most suitable as an upgradient well location.

| Indicator Parameter Comparison | | | | | | | | |
|---|---------|---------|----------|---------|------|-------|---------|---------|
| Average Groundwater Concentration(s) By Hydrogeologic Unit/Category | | | | | | | | |
| Hydrogeologic Unit/Category | Boron | Calcium | Chloride | Sulfate | TDS | pH | Arsenic | Lithium |
| Potential Upgradient | | | | | | | | |
| GS-AP-MW-17V | 0.04322 | 30.9 | 3.6 | 11.1 | 361 | 7.61 | 0.00216 | 0.06500 |
| GS-AP-MW-16S | 0.07487 | 13.8 | 4.7 | 5.9 | 426 | 10.10 | 0.00231 | 0.07500 |
| Source Water | | | | | | | | |
| Ash | 4.02 | 143.3 | 8.2 | 282.3 | 594 | | 0.30033 | 1.09667 |
| By Major Hydrogeologic Unit (All Wells) | | | | | | | | |
| Pottsville Fm - American Strata | 0.07124 | 44.3 | 86.7 | 286.3 | 837 | 7.81 | 0.00522 | 0.08375 |
| Pottsville Fm - Gillespy Transition | 0.97841 | 46.4 | 9.7 | 139.8 | 403 | 7.16 | 0.10266 | 0.17827 |
| Pottsville Fm - Pratt Strata | 0.19656 | 29.7 | 16.2 | 81.1 | 426 | 8.64 | 0.00991 | 0.09119 |
| By Major Hydrogeologic Unit (Wells Demonstrating SSLs) | | | | | | | | |
| Pottsville Fm - American Strata | 0.08373 | 56.6 | 281.1 | 783.3 | 2008 | 8.06 | 0.01010 | 0.14625 |
| Pottsville Fm - Gillespy Transition | 0.96606 | 26.2 | 12.0 | 166.4 | 446 | 7.32 | 0.14667 | 0.12667 |
| Pottsville Fm - Pratt Strata | 0.44006 | 40.9 | 19.9 | 168.9 | 560 | 9.32 | 0.01706 | 0.20397 |

The above comparison presents average concentrations of key indicator parameters and grouped by (1) potential upgradient wells as defined by groundwater elevations, (2) ash pore water that represents a potential source composition for groundwater impacts, (3) downgradient wells by hydrogeologic unit, and (4) wells demonstrating exceedances by hydrogeologic unit. This profile shows that potential upgradient wells demonstrate a lower concentration profile for boron, calcium, chloride, sulfate, TDS, arsenic, and lithium. Well GS-AP-MW-16S has demonstrated elevated pH which profiles favorably as a comparable upgradient location for GS-AP-MW-15 and GS-AP-MW-21 which have also demonstrated elevated pH.

Additional data will be collected from GS-AP-MW-16S prior to making a final recommendation. Well GS-AP-MW-17V has been incorporated as an upgradient well and data used for determination of groundwater protection standards during the Fall 2021 sampling event.

Table 1a, Compliance Monitoring Well Network Details, summarizes compliance well installation data, including monitoring well construction details and the lithology (flow system) adjacent to the screened interval

3.3.1.2 Downgradient Wells

Borehole geophysics, hydrophysical logging, and occasional packer testing were used to determine well screen intervals. These logging techniques identify groundwater flow zones in open boreholes and are optimally suited for use in low-yielding, fractured rock media. Heat-pulse flowmeter logging or packer testing were often used to assess or further evaluate flow zones indicated by hydrophysical logging tools. If multiple flow zones were identified, then paired wells were often installed to screen both zones.

Preferential groundwater flow away from the site, if existing, would occur within zones of enhanced permeability such as cleated coals or zones of intersecting rock discontinuities spatially located lateral to or beneath the base of the Ash Pond. Strata of the Pratt Coal Group are the uppermost aquifer lateral to or beneath the base of the Ash Pond, as indicated by borehole logging and geophysics. Downgradient monitoring wells are installed in the Pratt Coal Group, and generally across the Pratt or American Coal Seam.

To the north and beneath the Ash Pond dam, Pratt Coal Group strata exist above the ground surface or are mined out. In these areas, downgradient monitoring well locations were installed across the uppermost groundwater yielding fractures identified by borehole geophysics and hydrophysical logging and generally correspond to the transition from Pratt to Gillespy Coal Groups.

Downgradient locations GS-AP-MW-9, GS-AP-MW-10, GS-AP-MW-11, GS-AP-MW-13, and GS-AP-MW-14 were abandoned in 2019.

Former downgradient piezometer GS-AP-MW-3 was sampled during the first semi-annual sampling event of 2021. As discussed in the *2020 Annual Groundwater Monitoring and Corrective Action Report*, a low-yield study (re-evaluation of recharge rate versus depth and field parameters) found that well location GS-AP-MW-3 produced sufficient yield for low-flow sampling methods. It is uncertain if GS-AP-MW-3 will produce sufficient yield year-round or only during the wet season months. Recharge rates and analytical data will be evaluated over subsequent sampling events to determine if this location is suitable as a long-term downgradient compliance well. Presently, the well is being treated as a downgradient location while these data can be evaluated.

During the Fall of 2021, several delineation wells were re-designated as downgradient compliance wells to satisfy compliance monitoring needs in the American Flow System. These wells include GS-AP-MW-9V, GS-AP-MW-12V, GS-AP-MW-15V, GS-AP-MW-21V.

Additional downgradient compliance monitoring wells were installed during the Fall of 2021 as well. These locations include GS-AP-MW-1R, GS-AP-MW-3V, GS-AP-MW-5R, GS-AP-MW-9R, GS-AP-MW-10R, GS-AP-MW-11R, GS-AP-MW-13R, GS-AP-MW-18VR, GS-AP-MW-46, and GS-AP-MW-47. Well construction details and screened lithologies for downgradient wells are summarized in **Table 1a**.

3.3.1.3 Delineation Wells

Pursuant to 40 CFR § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-096-GW, additional monitoring wells have been installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring. Three phases of field investigation have occurred since late 2018 to explore potential impacts to groundwater.

Three historic piezometers, GS-AP-PZ-16, GS-AP-PZ-18, and GS-AP-PZ-22 monitor water levels in the adjacent Maxine Mine (American coal seam). These locations were converted to vertical delineation wells during the first quarter of 2020. Well GS-AP-PZ-18 was abandoned in the Fall of 2021 to accommodate ash pond closure activities.

Former piezometer, GS-AP-MW-41HS, was sampled during the first semi-annual sampling event of 2021. As discussed in the *2020 Annual Groundwater Monitoring and Corrective Action Report*, a low-yield study (re-evaluation of recharge rate versus depth and field parameters) found that well location GS-AP-MW-41HS produced sufficient yield for low-flow sampling methods. It is uncertain if GS-AP-MW-41HS will produce sufficient yield year-round or only during the wet season months.

During the Fall of 2021, four additional delineation wells were installed to assess potential groundwater impacts. These wells include GS-AP-MW-23V, GS-AP-MW-27HR, GS-AP-MW-37HR, and GS-AP-PZ-18R.

Delineation well locations are presented in **Figure 5. Table 1b, Delineation Well Network Details**, summarizes delineation well installation data, including monitoring well construction details and the lithology (flow system) adjacent to the screened interval.

3.3.1.4 Piezometers

There are currently 7 piezometers at the site. Historically, water-level only piezometers are well locations that (1) did not yield sufficient groundwater recharge for sampling or (2) encountered underground mine workings not suitable for compliance sampling. **Table 1c, Piezometer Well Network Details**, summarizes

piezometer installation data, including piezometer construction details and the lithology (flow system) adjacent to the screened interval.

A study and re-analysis of low-yielding piezometers (GS-AP-MW-1, GS-AP-MW-3, GS-AP-MW-4, GS-AP-MW-7V, GS-AP-MW-16S, GS-AP-MW-20, GS-AP-MW-27H, GS-AP-MW-30H, GS-AP-MW-30HS, GS-AP-MW-37H, GS-AP-MW-39H, and GS-AP-MW-41HS) was conducted to assess potential for sampling and inclusion into the monitoring well network. This study revealed that two locations, GS-AP-MW-3 (downgradient) and GS-AP-MW-16S (upgradient), produce sufficient groundwater yield (at least seasonally) to be proposed for inclusion into the site groundwater monitoring network. Results and discussion of the low-yield study was included in the *2020 Annual Groundwater Monitoring and Corrective Action Report* and are only summarized above for the purposes of this report. The proposed re-designation of these well locations were also included in the *March 2020 Revised Groundwater Monitoring Plan (GWMP)* (see *Table 1 of March 2020 GWMP*).

Location GS-AP-MW-16S was also proposed as an additional upgradient location in the Groundwater Monitoring Plan submitted in March 2021. At this time, it is unknown if well GS-AP-MW-16S will provide sufficient groundwater year-round or only seasonally during wetter periods. The following lines of evidence provide support for an upgradient designation:

- (1) Groundwater elevations and flow pattern consistent with uppermost Water-Table Aquifer System (see **Sections 3.2.3** and **4.1** for detailed discussion of groundwater elevation and flow). This indicates that groundwater flow away from GS-AP-MW-16S is towards the ash pond and vertically downward, indicating upgradient conditions.
- (2) Low concentrations of key Appendix III indicator parameters.

Although approved as a potential upgradient well, the plan is to continue to evaluate data from GS-AP-MW-16S prior to final recommendation. Geochemically, GS-AP-MW-16S shares common traits with wells GS-AP-MW-15, GS-AP-MW-15V, and GS-AP-MW-21 (elevated and correlating - pH, lithium).

Piezometer locations are presented in **Figure 5**.

3.3.1.5 Monitoring Well Replacement and Abandonment

As described in preceding sections numerous well replacements and well replacement activities occurred during the Fall of 2021. Replacement wells installed, surveyed, and developed include compliance replacement locations: GS-AP-MW-1R, GS-AP-MW-5R, GS-AP-MW-9R, GS-AP-MW-10R, GS-AP-MW-11R, GS-AP-MW-13R, GS-AP-MW-14R, GS-AP-MW-18R, and GS-AP-MW-18VR. Original

locations were abandoned in 2019 and 2021 to allow for the progress of ash pond closure activities. Information related to well construction details and screened lithology can be found in **Table 1a**.

Additional compliance wells were also installed. These include GS-AP-MW-3V, GS-AP-MW-46, and GS-AP-MW-47. Information related to well construction details and screened lithology can be found in **Table 1a**. Additional or replacement delineation wells were also installed during the Fall of 2021. These locations included: GS-AP-MW-23V, GS-AP-MW-27HR, GS-AP-MW-37HR, and GS-AP-MW-PZ-18R. Information related to well construction details and screened lithology can be found in **Table 1b**.

Table 1d, Abandoned Well Network Details summarizes well construction details and screened lithology of wells abandoned at the Site.

3.4 GROUNDWATER MONITORING HISTORY

In accordance with § 257.94(b), eight independent samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV prior to October 17, 2017. Background sampling was performed over the period of August 2016 to June 2017. Groundwater sampling for the first detection monitoring event after the background period was performed in August 2017.

Based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, Alabama Power initiated an assessment monitoring program on January 15, 2018. Pursuant to 40 CFR §257.95(a) and ADEM Admin. Code r. 335-13-15-.06(6)(a), monitoring wells were sampled for all Appendix IV parameters in February 2018, within 90 days of initiating the assessment monitoring program.

Statistical evaluations of 2018 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS, and the Site entered Assessment of Corrective Measures. Pursuant to 40 CFR §257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-096-GW, additional monitoring wells (**Table 1c, Figure 5**) were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring in three phases of groundwater investigations between January 2019 and September 2020. These wells, along with the compliance monitoring well network, are sampled semi-annually.

Delineation wells installed at the Site have been sampled concurrently with the compliance monitoring well network beginning with the second semi-annual sampling event in September 2020. However, occasionally,

additional data collection has occurred independent of routine compliance sampling events to support continuing assessment activities at the Site.

3.4.1 Available Monitoring Data

Laboratory analytical data is available for the groundwater monitoring history outlined in **Section 3.4**. Tabulated results for Appendix III and Appendix IV constituents by monitoring well are included in **Appendix A, Analytical Data Summary**.

3.4.2 Historical Groundwater Flow

Historical groundwater elevations and potentiometric surface maps show that groundwater flow patterns are consistent across monitoring events and as described in **Section 3.2.3**. As ash pond closure activities progress over the years and upon completion of closure, groundwater elevations will likely display variability representative of changing site hydrodynamics and eventually, a new set of equilibrium conditions. As this timeline progresses, groundwater elevations and trends will be qualitatively reviewed against this historical data set.

Tables summarizing groundwater elevations from all groundwater monitoring events are included in **Appendix B, Historical Groundwater Elevations Summary**.

3.4.3 Monitoring Variances

The groundwater monitoring program at the Site is operating under a Variance granted by ADEM on April 15, 2019, to conform State monitoring requirements under the CCR rule to Federal requirements. The variance:

1. Retains boron as an Appendix III detection monitoring parameter and excludes it as an Appendix IV assessment monitoring parameter.
2. Authorizes the use of Federally-published GWPS of 0.006 milligrams per liter (mg/L) for cobalt, 0.015 mg/L for lead, 0.040 mg/L for lithium, and 0.100 mg/L for molybdenum in lieu of background where those levels are greater than background levels.

3.5 GROUNDWATER SAMPLING AND ANALYSIS

Site compliance wells are sampled semi-annually between: (1) late winter – mid spring and (2) early to late fall. The temporal spacing between sampling events is sufficient to ensure that sampling events yield

independent groundwater samples and, represent different climatic or meteorological seasons which often foster a degree of natural variability in groundwater quality.

During routine semi-annual monitoring events, all compliance and delineation network wells are sampled and analyzed for Appendix III and Appendix IV constituents. Additional general chemistry constituents (major ions and anions) are now being collected routinely as well. These non-compliance parameters will be periodically analyzed to explore seasonal or closure-related changes to geochemical facies to site groundwater.

The following subsections summarize the sequential steps and process for the sampling, handling/transport, and analysis of compliance-related groundwater samples at the Site.

3.5.1 Groundwater Sample Collection

Prior to recording water levels and collecting samples, each well was opened and allowed to equilibrate to atmospheric pressure. Within a 24-hour period, depths to groundwater were measured to the nearest 0.01 foot with an electronic water level indicator with depth referenced from the top of the inner PVC well casing. Groundwater elevations were calculated by subtracting the depth to groundwater from surveyed top-of-casing (TOC) elevations.

Groundwater samples were collected from monitoring wells using low-flow sampling procedures in accordance with § 257.93(a) and ADEM Admin. Code r. 335-13-15-.06(4)(a). All monitoring wells in the compliance well network are equipped with dedicated pumps. Monitoring wells were purged and sampled using low-flow sampling procedures. In this procedure, field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen) are measured to determine stabilization and groundwater samples are collected when the following stabilization criteria are met:

- 0.2 standard units for pH.
- 5% for specific conductance.
- 0.2 mg/L or 10% for DO > 0.5 mg/l (whichever is greater).
- Turbidity measurements less than 5 NTU.
- Temperature and ORP – record only, no stabilization criteria.

During purging and sampling, an In-Situ Aqua Troll instrument was used to monitor and record field parameters. Once stabilization was achieved, samples were collected and submitted to the laboratory

following standard chain-of-custody (COC) protocol. Field data recorded in support of groundwater sampling activities are included in **Appendix C, Laboratory and Field Records**.

3.5.2 Sample Preservation and Handling

Groundwater samples were collected within the designated size and type of laboratory-supplied containers required for specific parameters. Sample bottles were pre-preserved by the laboratory.

Where temperature control was required, samples were placed in an ice-packed cooler and cooled to less than 6 °C immediately after collection. Blue ice or other cooling packs were not used for cooling samples. An ice-packed cooler was on hand when samples were collected.

3.5.3 Chain of Custody

A COC record was used to track sample possession from the time of collection to the time of receipt at the laboratory. COC records are included with the analytical laboratory reports included in **Appendix C**.

3.5.4 Laboratory Analysis

Laboratory analyses were performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama and Pace Analytical Services, LLC (Pace). Both APCEL and Pace are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. **Table 2, Parameters and Reporting Limits**, lists monitoring constituents analyzed from site groundwater samples. Lab reports and chain of custody records for the monitoring period are presented in **Appendix C**.

3.5.5 Monitoring Period Sampling Events

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(e), the following describes monitoring-related activities performed during the specified monitoring period. The first semi-annual monitoring event took place between February 7, 2022, and March 4, 2022. A re-sampling event for combined radium took place between May 9th and May 12th, 2022, for select wells where outliers were suspected. This re-sample included wells:

- GS-AP-MW-16S
- GS-AP-MW-17V
- GS-AP-MW-25HA

- GS-AP-MW-36H

The second semi-annual monitoring event took place between July 18, 2022, and August 11, 2022.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during the monitoring event. During the 2022 sampling events, additional general chemistry and monitored natural attenuation monitoring parameters were sampled and analyzed. These analytes have been incorporated for continued evaluations of geochemical facies and their evolution over time. These analytes will also support geochemical modeling and evaluations associated with monitored natural attenuation. These parameters include:

- Calcium (filtered)
- Iron (total and dissolved)
- Silicon (total and dissolved)
- Silica (total and dissolved)
- Sodium (total and dissolved)
- Sulfide
- Potassium
- Aluminum (total and dissolved)
- Manganese
- Magnesium (total and filtered)
- Nitrate-Nitrite
- Total Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity
- Total Organic Carbon.

All groundwater sampling activities were conducted by APC Field and Water Services. Pace Analytical Services (Greensburg) performed the laboratory analyses of Radium-226 and Radium-228 (reported combined) as well as the MNA parameter sulfide (Pace – New Orleans). APCEL performed the remaining Appendix III and Appendix IV analyses. Analytical data from the groundwater monitoring events is included as **Appendix C** in accordance with the requirements of § 257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(f)3.

4.0 GROUNDWATER ELEVATIONS AND FLOW

During the first semi-annual sampling event, groundwater elevations ranged from 128.22 to 534.75 ft MSL. feet NAVD88 (feet above reference 1988 North American Vertical Datum). **Figure 6A, Potentiometric Surface Contour Map (February 7, 2022) – Water Table, Figure 6B, Potentiometric Surface Contour Map (February 7, 2022) - Pratt Aquifer, and Figure 6C, Potentiometric Surface Contour Map (February 7, 2022) - American Aquifer** depict groundwater elevations and inferred groundwater flow direction during the first semi-annual sampling event of 2022.

During the second semi-annual sampling event, groundwater elevations ranged from 132.98 to 534.77 ft MSL. feet NAVD88 (feet above reference 1988 North American Vertical Datum). **Figure 7A, Potentiometric Surface Contour Map (July 18, 2022) – Water Table, Figure 7B, Potentiometric Surface Contour Map (July 18, 2022) - Pratt Aquifer, and Figure 7C, Potentiometric Surface Contour Map (July 18, 2022) - American Aquifer** depict groundwater elevations and inferred groundwater flow direction during the second semi-annual sampling event of 2022.

The obtained depth to water readings and calculated groundwater elevations for piezometers, GS-AP-MW-7V and GS-AP-MW-39H, are reflective of effectively dry piezometers. These wells did not encounter groundwater yielding intervals in the Gillespy and beneath the American coal flow system.

Figures 6A/7A shows groundwater flow towards the Ash Pond in wells screened in the upper flow system and towards Mulberry Fork in the middle to lower portions of the flow system. **Figures 6B/7B** show radial groundwater flow away from the Ash Pond in the Pratt Coal flow system. **Figures 6C/7C** show groundwater flow away from the Ash Pond in the deeper American Coal seam flow system. Recent groundwater elevation data have been tabulated and included in **Table 3, Groundwater Elevation Summary**. All historical available groundwater elevation data recorded since 2016 have been tabulated and included in **Appendix B**.

No significant changes in groundwater elevations or flow have been noted at the site as ash pond dewatering activities have not been initiated.

4.1 GROUNDWATER ELEVATION CHANGES

Groundwater elevations in multiple well locations have been identified as potential lower bound outliers based upon historical groundwater elevation data and screening with Interquartile Range (1.5 x IQR) statistics. While no significant groundwater flow pattern changes have been noted, these findings suggest

that (1) active de-watering of the ash pond might be leading to detectable changes in groundwater levels and (2) resumed mining activity to the south (likely dewatering operations) may have had a pronounced impact on decreasing groundwater elevations observed during the second semi-annual sampling event of 2022. Resumed mining activity has not been confirmed at the time of publication.

Following the second semi-annual monitoring event (July 2022), groundwater elevation data screened provided statistically significant decreases from historical records. A review of groundwater elevation data identified 17 well locations displaying groundwater elevations below the lower bound threshold. Eleven well locations displayed moderate to significant declines and are presented below.

| Well | Lowerbound GW Elevation Threshold (IQR) | GW Elevation 7/18/2022 | Distance below Lowerbound GW Elevation |
|---------------|---|------------------------|--|
| GS-AP-MW-34HO | 262.86 | 252.45 | -10.41 |
| GS-AP-PZ-16 | 258.76 | 252.45 | -6.31 |
| GS-AP-PZ-22 | 257.77 | 252.42 | -5.35 |
| GS-AP-MW-21V | 329.47 | 324.13 | -5.34 |
| GS-AP-MW-21 | 339.05 | 335.17 | -3.88 |
| GS-AP-MW-15V | 289.22 | 285.35 | -3.87 |
| GS-AP-MW-35HO | 285.42 | 282.35 | -3.07 |
| GS-AP-MW-2 | 374.97 | 371.91 | -3.06 |
| GS-AP-MW-36H | 291.36 | 288.45 | -2.91 |
| GS-AP-MW-3 | 373.47 | 370.63 | -2.83 |
| GS-AP-MW-12 | 379.28 | 376.59 | -2.69 |
| GS-AP-MW-30HA | 254.33 | 252.32 | -2.01 |
| GS-AP-MW-32H | 279.39 | 277.84 | -1.55 |
| GS-AP-MW-20 | 310.11 | 308.77 | -1.34 |
| GS-AP-MW-33HO | 272.87 | 271.89 | -0.98 |
| GS-AP-MW-43H | 363.21 | 362.51 | -0.70 |
| GS-AP-MW-31H | 350.71 | 350.18 | -0.53 |

The most significant groundwater elevation decreases observed during the July 2022 monitoring event are spatially clustered to the south with the densest cluster occurring south and west of the southern edge of the Ash Pond. Here wells tapping the American coal seam or American Maxine Mine (GS-AP-MW-34HO, GS-AP-PZ-16, GS-AP-PZ-22) demonstrate the highest order of decrease. This spatial pattern suggests that mining operations have resumed southwest or south-southwest of the Site. Additionally, pond closure

activities may also be contributing to decreases observed – especially in wells located further north. Dewatering operations began at the Site in 2022.

4.2 GROUNDWATER FLOW VELOCITY CALCULATIONS

Because the geology at the Ash Pond is not homogeneous or isotropic with respect to groundwater flow, groundwater velocity calculations using derivations of Darcy’s Law are not applicable to groundwater at the site. The hydrogeologic characteristics of fractured rock typically produce preferential groundwater flow paths, so groundwater velocity is much more variable than in uniform porous media such as sand. During monitoring well installation, multiple techniques were used to successfully intercept groundwater flow paths with the monitoring wells located around the Ash Pond. These flow paths correspond to coal cleats and fractures, zones of fracture concentration, bedding planes, and other discontinuities in the rock. Therefore, groundwater flow velocity at the site cannot be accurately quantified using existing site data.

Slug testing provided horizontal hydraulic conductivities for the uppermost aquifer between 1.19×10^{-3} cm/sec and 1.22×10^{-5} cm/sec with an average of 4.52×10^{-4} cm/sec. A total of 43 packer tests resulted in a range of hydraulic conductivity (k) values from an estimated low of 7×10^{-7} cm/sec to a high of 4×10^{-3} cm/sec, with most tests (31) in the moderate range (10^{-5} cm/sec to 10^{-4} cm/sec), 2 test results in the more permeable range (10^{-3} to 10^{-2} cm/sec), and 10 test results in the less permeable range (10^{-6} cm/sec).

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

During each sampling event, quality assurance/quality control samples (QA/QC) are collected at a rate of one sample per every group of 10 well samples. These QA/QC samples include well duplicates, equipment blanks, and field blanks. Routine analyses of field QA/QC samples are a method for evaluating whether artificial bias could have been introduced into lab results by ways of sampling activities or equipment.

5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

Analytical precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source. Here, a comparison of results between samples and field duplicate samples are used as measure of laboratory precision. Where field duplicates are collected, the RPD between the sample and duplicate sample is calculated as:

$$RPD = \frac{Conc1 - Conc2}{(Conc1 + Conc2)/2}$$

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where the relative percent differences are below 20%, the difference is considered acceptable and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4a, Relative Percent Difference Calculations**, provides the relative percent differences for sample and sample duplicates during the monitoring period. Two RPD criteria failures were observed during the first semi-annual sampling event: (1) GS-AP-MW-24H for sulfate and (2) GS-AP-MW-28H for fluoride. One RPD criteria failure was observed during the second semi-annual sampling event – molybdenum at location GS-AP-PZ-18R. In all instances of RPD criteria failure results reviewed were less than 5 times the RL. In these instances, a validation flag of (+) J, (ND), UJ can be applied to the original samples.

Analytical data reviewed provided low-level or trace detections in field and/or equipment blanks during the monitoring period. **Table 4b, Field QC: Blank Detections** provides a summary of low-level detections observed during the first semi-annual monitoring event. Each of these detections were estimated concentrations, above the MDL but below the RL, and qualified in the laboratory analytical reports with “J flags.” However, if concentrations are detected above the MDL in field QC samples, original results on the (1) date of a blank detection and (2) with a value less than 5 times the field QC detection are flagged with a (+) U* and MDL/RL values modified based upon the blank concentration.

Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation and/or (2) constituents flagged are not Site COI. The extent of trace chromium detections in blanks can be explained by a low MDL value of 0.000203 mg/L.

5.2 STATISTICAL METHODOLOGY AND TESTS

Sanitas software is used to perform statistical analyses on Site data. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by EPA regulations. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the USEPA Unified Guidance (2009).

5.2.1 Appendix III Evaluation

Interwell prediction limits, combined with a 1-of-2 verification strategy, are used to evaluate boron, calcium, chloride, fluoride, sulfate, and TDS. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to identify SSIs.

Groundwater Stats Consulting demonstrated that these test methods were appropriate in the October 2017 Statistical Analysis Plan, which was updated in August 2020 with additional data screening and evaluation. Time series plots were used to screen proposed background data for suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective. Suspected outliers at all wells for Appendix III parameters are formally tested using Tukey’s box plot method and, when identified, flagged in the computer database.

The following adjustments are also applicable to the statistical analysis per the Unified Guidance:

- No statistical analyses are required on wells and analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in the background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects the Kaplan-Meier non-detect adjustment is applied to the background data.
- Non-parametric prediction limits are used on data containing greater than 50% non-detects.

5.2.2 Appendix IV Evaluation

When in corrective action, Appendix IV constituents are sampled semi-annually, and concentrations are compared to GWPS. Following the Unified Guidance, spatial variation for Appendix III parameters is tested using the ANOVA; this test is not prescribed for Appendix IV constituents. Unlike the statistical evaluation of Appendix III constituents (where single-sample results are compared to the statistical limit), Appendix IV analysis uses the pooled results from each downgradient well to develop a well-specific Confidence Interval that is compared to the statistical limit. The statistical limit is either the interwell tolerance limit (i.e., background) calculated using the pool of all available upgradient well data (see Chapter 7 of the Unified Guidance), or an applicable groundwater protection standard such as the MCL. Appendix IV background data are screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits.

Parametric tolerance limits (i.e., UTLs) were calculated using pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent on the number of background samples. The UTLs were then used as the GWPS.

As described in 40 CFR §257.95(h)(1)-(3) and the ADEM Variance (see **Section 3.4.3**), the GWPS is:

- (1) The maximum contaminant level (MCL) established under 40 CFR §141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L.
 - (ii) Lead 0.015 mg/L.
 - (iii) Lithium 0.040 mg/L.
 - (iv) Molybdenum 0.100 mg/L.

- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

In corrective action, when the Lower Confidence Limit (LCL), or the entire interval, exceeds the GWPS as discussed in the USEPA Unified Guidance (2009), the result is recorded as an SSL. GWPS for Appendix IV constituents are updated on a biennial schedule. This schedule was initiated in 2019 with updates occurring after the second semi-annual sampling event of each biennial year. Data from upgradient wells collected between updates may still be used to support ASDs (Alternate Source Demonstrations) if merited.

5.3 STATISTICAL EXCEEDANCES

Analytical data from the monitoring period was statistically analyzed in accordance with the Professional Engineer (PE)-certified Statistical Analysis Plan (October 2017) and updated in the August 2020 data screening evaluation performed by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

5.3.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix D, Statistical Analyses**, Appendix III constituents have not returned to background levels. A summary of Appendix III SSIs are provided in the **Executive Summary Table** previously referenced.

5.3.2 Appendix IV Constituents

Table 5, Summary of Background Levels and Groundwater Protection Standards summarizes the background limit established at each monitoring well and the GWPS. A summary table of the statistical limits accompanies the prediction limits in **Appendix D**. As discussed in **Sections 3.3.1.1** and **5.3**, Site GWPS were updated after the Fall 2021 sampling event. As a result, the GWPS for lithium has increased from 0.04 to 0.0809 mg/L.

The following subsections describe statistical exceedances during the semi-annual monitoring events of 2022.

5.3.2.1 First Semi-Annual Groundwater Monitoring Event

During the first semi-annual monitoring event, statistical analysis of Appendix IV data incorporating limits defined in the 2019 ADEM Variance (section 3.4.3) identified the following SSLs over GWPS at the listed downgradient wells. Using a lithium concentration of 0.0809 mg/L, the following exceedances were noted:

- GS-AP-MW-6D: Arsenic, Lithium.
- GS-AP-MW-7: Arsenic, Lithium, Molybdenum.
- GS-AP-MW-15: Lithium.
- GS-AP-MW-21: Lithium.

Although not statistically analyzed due to a limited data set, recently installed downgradient wells GS-AP-MW-13R and GS-AP-MW-46 demonstrated concentrations above the GWPS for arsenic. Statistical analyses will be conducted after a sufficient data set for these wells have been collected. Similarly, recently converted to downgradient wells, GS-AP-MW-15V and GS-AP-MW-21V, exhibited lithium concentrations above the GWPS. Concentrations over the GWPS but not statistically analyzed:

- GS-AP-MW-13R: Arsenic
- GS-AP-MW-46: Arsenic
- GS-AP-MW-15V: Lithium
- GS-AP-MW-21V: Lithium

The combined radium results from GS-AP-MW-16S, GS-AP-MW-17V, GS-AP-MW-25HA, GS-AP-MW-36HA were noted as likely potential outliers in comparison to historical concentrations. Concentrations were significantly higher than previous sampling events. A re-sampling of these wells was conducted between May 10 and 11, 2022 and within 90 days of initial sampling. The results confirm that initial results from the February-March sampling event were outliers as concentrations from the May resample were more similar to historical ranges. This data is summarized below. Re-sample data is included in **Appendix C**.

| Well | Analyte | Units | May 2022 Resample Result | February 2022 Result | Prior Max Concentration |
|---------------|------------------------------|-------|--------------------------|----------------------|-------------------------|
| GS-AP-MW-16S | Combined Radium 226 + 228 | pCi/L | 0.746 | 1.23 | 0.63 |
| GS-AP-MW-17V | Combined Radium 226 + 228 | pCi/L | 0.553 | 7.76 | 0.738 |
| GS-AP-MW-25HA | Combined Radium 226 + 228 | pCi/L | 0.565 | 0.763 | 0.422 |
| GS-AP-MW-36H | Combined Radium 226 + 228 | pCi/L | 1.03 | 7.37 | 4.33 |

5.3.2.2 Delineation Wells

Statistical analyses are not conducted on Site delineation wells. However, a review of analytical data derived from delineation wells identified concentrations above GWPS for the following well, parameter pairs:

- GS-AP-MW-6V: Fluoride, Lithium
- GS-AP-MW-23H: Arsenic
- GS-AP-MW-26H: Lithium
- GS-AP-MW-34HO: Lithium
- GS-AP-MW-41HS: Lithium
- GS-AP-MW-41HD: Lithium

Between the Fall 2021 and Spring 2022 sampling events, arsenic concentrations in GS-AP-MW-15V and lithium concentrations in GS-AP-MW-29H declined to below GWPS.

Table 6, First Semi-Annual Monitoring Event Analytical Results Summary, provides a summary of all detected constituents for the first semi-annual sampling event. Statistical reporting output is included as **Appendix D**.

5.3.2.3 Second Semi-Annual Groundwater Monitoring Event

During the second semi-annual monitoring event, statistical analysis of Appendix IV data incorporating limits defined in the 2019 ADEM Variance (section 3.4.3) identified the following SSLs over GWPS at the listed downgradient wells:

- GS-AP-MW-6D: Arsenic, Lithium.
- GS-AP-MW-7: Arsenic, Lithium, Molybdenum.
- GS-AP-MW-15: Lithium.
- GS-AP-MW-21: Lithium.

Although not statistically analyzed due to a limited data set, recently installed downgradient wells GS-AP-MW-13R and GS-AP-MW-46 demonstrated concentrations above the GWPS for arsenic and GS-AP-MW-5R demonstrated a lithium concentration above the GWPS. Statistical analyses will be conducted after a sufficient data set for these wells have been collected. Similarly, recently converted to downgradient wells, GS-AP-MW-15V and GS-AP-MW-21V, exhibited lithium concentrations above the GWPS.

Concentrations over the GWPS but not statistically analyzed:

- GS-AP-MW-5R: Lithium
- GS-AP-MW-13R: Arsenic
- GS-AP-MW-15V: Lithium
- GS-AP-MW-46: Arsenic
- GS-AP-MW-21V: Lithium

Table 7, Second Semi-Annual Monitoring Event Analytical Results Summary, provides a summary of all detected constituents for the second semi-annual sampling event.

5.3.2.4 Delineation Wells

Statistical analyses are not conducted on Site delineation wells. However, a review of analytical data derived from delineation wells identified concentrations above GWPS for the following well, parameter pairs:

- GS-AP-MW-6V: Fluoride, Lithium
- GS-AP-PZ-16: Lithium
- GS-AP-MW-23H: Arsenic
- GS-AP-MW-25HA: Arsenic
- GS-AP-MW-26H: Lithium
- GS-AP-MW-27HR: Lithium
- GS-AP-MW-29H: Lithium

- GS-AP-MW-34HO: Lithium
- GS-AP-MW-41HS: Lithium
- GS-AP-MW-41HD: Lithium

It is important to note that location GS-AP-MW-16S, sampled for the first time during the second semi-annual monitoring event in 2020, has provided a concentration range for lithium between 0.0574 and 0.140 mg/L in 6 sampling events. This monitoring location, located hydraulically upgradient from the Ash Pond, exhibit elevated lithium concentrations similar to upgradient well GS-AP-MW-17V, and provides a second hydraulically upgradient location with lithium concentrations above the Federally derived GWPS (described in **Section 3.4.3**). The lithium concentration of 0.140 mg/L observed in GS-AP-MW-16S is higher than that of delineation wells GS-AP-MW-26H, and therefore, may further reduce the count of wells over the lithium GWPS after further evaluation and next scheduled update to site GWPS (Fall 2023). This along with the discussion provided in the most recent Semi-Annual Progress and Groundwater Delineation Report (September 2020) provide strong lines of evidence that naturally occurring lithium exists at elevated concentrations.

Fluoride, detected at concentrations above the GWPS in vertical delineation well GS-AP-MW-6V, is not being considered as an impact from the Ash Pond and is not being evaluated for delineation. The following lines of evidence support this point:

- (1) Absence of fluoride in pore-water samples (Ash Pond source water) where fluoride concentrations were non-detect in 2 of 3 samples and detected at a low-level, estimated concentration in the third sample (0.0756 (J) mg/L). This implies that the ash pond is not a source of such high concentrations of fluoride.
- (2) No other compliance or delineation wells sampled contained elevated fluoride concentrations. Fluoride concentrations in other wells ranged from 0.1 to 2.07 mg/L and averaged 0.34 mg/L.
- (3) Fluoride concentrations in paired wells, GS-AP-MW-6S and GS-AP-MW-6D, provided concentrations of 0.164 and 0.108 mg/L, respectively during the first semi-annual monitoring event. Concentrations ranged from 0.1 (J) to 0.164 mg/L during the second semi-annual monitoring event.
- (4) GS-AP-MW-6V is a relatively new and deeper screened well which can introduce geochemical variability due to (1) localized variability or isolated source in the geologic formation and/or (2) a temporary disequilibrium caused by the installation of a new well.

6.0 ALTERNATE SOURCE DEMONSTRATION

An alternate source demonstration (ASD) was submitted in July 2021 and attached to the 2021 Annual Groundwater Monitoring and Corrective Action Report in January 2022. The alternate source demonstration focuses primarily on (1) the contribution elevated pH has on arsenic and lithium concentrations in wells GS-AP-MW-15/15V and GS-AP-MW-21 and (2) a comparison of Gorgas AP pore-water geochemistry to the geochemistry of downgradient wells. This study and previous data obtained documenting elevated trace metals in Warrior Basin (Pottsville) coal measures strata provides sufficient confidence to determine that many historical exceedances at the site are related to elevated pH and/or elevated trace metals in these coal measures.

The following bullets summarize key lines of evidence documented in the ASD and supporting alternative sources:

- Wells analyzed provided a ratio of lithium to boron different than pore-water samples (source).
- Wells analyzed provided a different geochemical fingerprint (geochemical facies) from pore-water samples.
- Substantial differences in the relative abundance of boron in comparison to chloride and lithium (i.e., conservative ions) in GS-AP-MW-15, GS-AP-MW-15V, and GS-AP-MW-21 compared to Ash Pond porewater indicate an alternate source for lithium.
- High sodium concentrations (+200 mg/L) and alkaline pH (> 10) of groundwater at GS-AP-MW-15, GS-AP-MW-15V, and GSAP-MW-21 relative to upgradient water and Ash Pond porewater indicates the potential for sodium-bentonite and grout contamination; sodium-bentonite may allow for cation exchange with lithium.
- Lithium is naturally occurring and environmentally available in the bedrock at Plant Gorgas, as identified by chemical analysis and sequential extraction of rock samples.

As suggested and described in numerous previous reports (*most notably - September 2020 Progress and Groundwater Delineation Report*), detailed analyses of geochemistry data indicate that impacts to groundwater are concentrated north of the ash pond dam. Rock chemistry data as well as published technical reports provide sufficient documentation on sources of trace metals. Historical disturbances created by mining in and around Gorgas can also contribute to an increase in some constituents.

Additionally, during the second semi-annual sampling event of 2021, boron isotopic analyses were conducted on select well locations to further explore natural or alternative source potential. The following

well locations, which exhibited concentrations over GWPS during 2022 sampling events, have boron isotopic signatures indicative of natural or alternative sources of COI.

| Well | Sample Date | $\delta^{11}\text{B}$ (‰) | B (mg/L) |
|-------------|--------------------|---|-----------------|
| MW-23H | 7/27/2021 | 3.2-4.2 | 0.0474 |
| MW-41HS | 7/28/2021 | 3.6-5.0 | 1.09 |
| MW-6V | 8/2/2021 | 13.3 | 0.1010 |
| MW-15V | 8/3/2021 | 29.2-31.1 | 0.0601 |
| PZ-22 | 8/3/2021 | 2.7 | 0.0478 |
| MW-34HO | 7/27/2021 | 13.8-18.5 | 0.106-0.108 |

Historically, Plant Gorgas has used coals from the Appalachian Basin (Warrior Basin included). Data included in Ruhl et al. (2014) indicate that ash derived from Appalachian Basin coals display a $\delta^{11}\text{B}$ range of -2.7 to -17.6 ‰. In terms of natural occurring sources of boron, (A) groundwater typically displays a $\delta^{11}\text{B}$ range between 2 and 18 ‰, (B) precipitation between 7 and 23 ‰, and soil/rocks between 0 and -5 ‰.

Many other wells were not analyzed due to historically low boron concentrations or absence of concentration over the GWPS. A geogenic study investigating natural sources of COI at the Site will be initiated in 2023 to follow up on the previously submitted ASD as well as geochemical evaluations conducted since that have highlighted a likely natural source.

7.0 GROUNDWATER ASSESSMENT AND CORRECTIVE ACTION

As required by Part E of the Order (AO 18-096-GW) and correspondence from ADEM (March 2021), this report provides an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018). The primary purpose of this plan and subsequent phases of work were to identify the horizontal and vertical extent of groundwater impacts defined by EPA Appendix IV groundwater protection standards.

A comprehensive groundwater delineation report summarizing findings was submitted to ADEM in September 2020. The conclusions and results presented indicate that groundwater delineation have been completed to a sufficient degree to define spatial extent of groundwater impacts and to inform a groundwater remedy selection plan.

7.1 CHRONOLOGY OF DELINEATION ACTIVITIES

Beginning in 2019, Semi-Annual Progress Reports have routinely been provided to ADEM in March and September, annually. Alabama Power Company (APC) requested approval to combine information typically provided in the Semi-Annual Progress Reports with Semi-Annual Groundwater Monitoring and Corrective Action Reports on March 15, 2021. ADEM approved this approach and revised timeline for submittals on March 16, 2021. APC will now provide the Department with a discussion of delineation results and activities in each semi-annual groundwater monitoring and corrective action report (July; January) until released in writing.

7.1.1 Delineation Wells

Part B of the Order required the installation of additional wells as necessary to define the extent of groundwater impacts. The following sections describe monitoring wells installed to delineate impacts to groundwater.

Phase I – Groundwater Investigation (January 2019 – August 2019)

Phase I was conducted between the dates of January 2, 2019, and August 15, 2019. **Table 1b** and **Figure 5** present details and locations of delineation wells. The following summarizes all activities that were completed during Phase I of groundwater delineation at the Site:

- Installed nine horizontal delineation wells (GS-AP-MW-23H, GS-AP-MW-24H, GS-AP-MW-25H, GS-AP-MW-26H, GS-AP-MW-27H, GS-AP-MW-28H, GS-AP-MW-29H, GS-AP-MW-

30H, and GS-AP-MW-30HS) and four vertical delineation (GS-AP-MW-7V, GS-AP-MW-12V, GS-AP-MW-17V, and GS-AP-MW-18V) wells between January 2, 2019 and February 26, 2019.

- Developed the delineation wells between January 11, 2019, and March 12, 2019. Horizontal delineation wells MW-25H, MW-27H, MW-30H, and MW-30HS and vertical delineation well MW-7V did not yield sufficient water to be developed or sampled and are utilized as water level only piezometers.
- Sampled the eight successfully developed delineation wells and three pre-existing Ash Pond piezometers between February 20, 2019, and March 19, 2019.
- Submitted a Semi-Annual Progress Report documenting groundwater investigation activities on March 30, 2019.
- Submitted a Groundwater Investigation Report to the Department on May 13, 2019. This report recommended a second phase of groundwater investigation to complete delineation of groundwater impacts as required by Part B of the Order.
- Submitted an Assessment of Corrective Measures to the Department on July 11, 2019, as required by Part C of the Order.
- Submitted a Phase II – Groundwater Delineation Plan to the Department on August 15, 2019. This plan documented planned activities associated with proposed Phase II delineation efforts.

Phase II – Groundwater Investigation (September 2019 – March 2020)

Following a review of data gathered from the Phase I Investigation, additional groundwater investigation was proposed to the Department in a Phase II Delineation Plan submitted August 15, 2019, to further delineate extent of groundwater impacts. Phase II was conducted between the dates of September 24, 2019, and March 27, 2020. **Table 1b** and **Figure 5**, present details, and locations of delineation wells and piezometers. The following summarizes all activities that were completed during Phase II of groundwater delineation at the Site:

- Completed semi-annual assessment sampling event in September 2019.
- Installed fifteen horizontal delineation wells (GS-AP-MW-25HA, GS-AP-MW-30HA, GS-AP-MW-31H, GS-AP-MW-32H, GS-AP-MW-33HO, GS-AP-MW-34HO, GS-AP-MW-35HO, GS-AP-MW-36H, GS-AP-MW-37H, GS-AP-MW-38H, GS-AP-MW-39H, GS-AP-MW-41HS, GS-AP-MW-41HD, GS-AP-MW-42H, and GS-AP-MW-43H), three vertical delineation wells (GS-AP-MW-9V, GS-AP-MW-15V, and GS-AP-MW-21V), and converted three existing deep

piezometers (GS-AP-PZ-16, GS-AP-PZ-18, and GS-AP-PZ-22) to vertical delineation wells between September 24, 2019 and January 31, 2020.

- Submitted a Semi-Annual Progress Report documenting groundwater investigation activities on September 30, 2019.
- Developed the delineation wells between November 5, 2019, and January 30, 2020. Horizontal delineation wells GS-AP-MW-41HS, GS-AP-MW-37H, and GS-AP-MW-39H did not produce sufficient water to be developed or sampled and are utilized as water level only piezometers.
- Sampled the fifteen successfully developed delineation wells and converted piezometers between March 16, 2020, and March 27, 2020.
- On December 30, 2019, provided the Department with a response to comments received from the Department on November 14, 2019.
- Surveyed developed wells in January 2020.
- Submitted a Semi-Annual Progress Report documenting groundwater investigation activities on March 30, 2020.

Phase III – Groundwater Investigation (April 2020 – September 2020)

Following a review of data gathered from the Phase I and II Investigations, additional groundwater investigation was conducted to address data gaps. **Table 1b** and **Figure 5**, present details, and locations of delineation wells. The following summarizes all activities that were completed during Phase III of groundwater delineation at the Site:

- Installed two vertical delineation wells north of the Ash Pond (GS-AP-MW-6V and GS-AP-MW-7VR), one horizontal delineation well west of the Ash Pond (GS-AP-MW-40H), and one off-site delineation well (GS-AP-MW-44H0) to the east of the Ash Pond. Onsite well installation activities took place between April 15, 2020, and May 1, 2020, and off-site installation between August 11, 2020 and August 16, 2020.
- Developed the delineation wells between May 27, 2020, and August 27, 2020. Vertical delineation well GS-AP-MW-7VR did not produce sufficient groundwater for well development.
- Sampled delineation wells in September 2020 along with all other delineation and compliance wells as a part of the second semi-annual assessment monitoring event of 2020. Laboratory data will be included with the 2020 Annual Groundwater Monitoring and Corrective Action Report.

- Conducted a study and re-analysis of low-yielding piezometers (GS-AP-MW-1, GS-AP-MW-3, GS-AP-MW-4, GS-AP-MW-7V, GS-AP-MW-16S, GS-AP-MW-20, GS-AP-MW-27H, GS-AP-MW-30H, GS-AP-MW-30HS, GS-AP-MW-37H, GS-AP-MW-39H, and GS-AP-MW-41HS) to assess potential for sampling and inclusion into monitoring well network. A summary memo/report will be included with the 2020 Annual Groundwater Monitoring and Corrective Action Report.
- Submitted a Semi-Annual Progress and Groundwater Delineation Report documenting groundwater investigation activities on September 30, 2020.
- Responded to the February 3, 2021, ADEM Semi-Annual Progress and Groundwater Delineation Reports comments letter on March 5, 2021.
- Responded to the January 20, 2021, ADEM Groundwater Monitoring Plan comments letter and included a Supplemental Site Hydrogeologic Characterization Report on March 8, 2021.
- Submitted the second revised Groundwater Monitoring Plan to the ADEM on March 15, 2021.

Phase IV – Groundwater Investigation (June 2021 – July 2022)

Phase IV of delineation is focused on (1) addressing potential data gaps in lithium delineation and (2) evaluating alternative sources (naturally occurring and/or mine-related) of elevated lithium in wells where geologic and geochemical data already indicate the strong potential for an alternate source. Phase IV included the following scope:

- Re-attempting delineation wells GS-AP-MW-27H and GS-AP-MW-37H.
- Vertical delineation adjacent to well GS-AP-MW-23H.
- Vertical delineation adjacent to well GS-AP-MW-3 (converted to compliance location) and horizontal delineation east of well GS-AP-MW-3.
- Addressing general data gaps in the American coal flow system.
- Boron isotope sampling and analyses at selected well locations.
- Further geochemical study and evaluation of the occurrence of elevated lithium and arsenic.

During Phase IV numerous (19) replacement, additional compliance, and delineation wells were installed and developed. Each of these will add valuable information relevant to assessment. Replacement wells installed, surveyed, and developed include compliance replacement locations: GS-AP-MW-1R, GS-AP-

MW-5R, GS-AP-MW-9R, GS-AP-MW-10R, GS-AP-MW-11R, GS-AP-MW-13R, GS-AP-MW-14R, GS-AP-MW-18R, and GS-AP-MW-18VR. Additional compliance wells were also installed. These include GS-AP-MW-3V, GS-AP-MW-46, and GS-AP-MW-47. Information related to well construction details and screened lithology can be found in **Table 1a**. Additional or replacement delineation wells were also installed during the Fall. These locations included: GS-AP-MW-23V, GS-AP-MW-27HR, GS-AP-MW-37HR, and GS-AP-MW-PZ-18R. Information related to well construction details and screened lithology can be found in **Table 1b**. These wells were sampled for the first time during the February-March 2022 sampling event...

7.2 NATURE AND QUANTITY OF RELEASE

Part B of the Order also required collecting data on the nature and estimated quantity of material released. To collect data regarding the nature of the source and estimated quantity of material released sampling of ash pore-water at three (3) locations was conducted. Ash pore-water was sampled for all EPA Appendix III and IV constituents. Groundwater quality data is compared to source water and leachate composition to provide a basis for evaluating the degree to which the source area has contributed constituents to groundwater.

7.3 DISCUSSION OF DELINEATION RESULTS

Groundwater Monitoring and Corrective Action reports for the Plant Gorgas Ash Pond have identified SSLs in groundwater for arsenic, lithium, and molybdenum. For the first semi-annual groundwater monitoring event, isoconcentration maps for arsenic, lithium, and molybdenum are presented in **Figures 8A, 8B, 9A, 9B, and 10**, respectively. Isoconcentration maps for the second semi-annual groundwater monitoring event are presented in **Figures 11A, 11B, 12A, 12B, and 13**. As shown on these figures, SSLs have been observed in three distinct flow systems – (1) Pratt Flow System, (2) American Flow System, and (3) Gillespy Flow System (north of dam).

Isoconcentration lines shown on **Figures 8A through Figure 13** are data-driven contours derived from the spatial distribution of constituent concentrations in the well network. When spatially distributed objects are spatially correlated (objects close to together have similar characteristics) interpolation analysis can be used to predict “unknowns” between objects. ArcGIS and Geostatistical Analyst are utilized to interpolate chemical concentrations between well locations. This process involves the transformation of chemical concentration data to log-normal distribution prior to interpolation. In cases where concentrations decrease below the GWPS in between well pairs, the extent of groundwater impacts are interpreted from the

interpolated (predicted) data set. This method considers the spatial pattern of decreasing concentrations observed in nearby wells. Additionally, when applicable, isoconcentration maps have been subdivided by major flow system (Pratt or American).

The location and spacing of delineation wells are based upon the following goals and site factors:

1. Determine if impacts to groundwater could extend off-site in the direction of groundwater flow away from the facility.
2. Evaluate potential for vertical migration adjacent to compliance wells with SSLs and within the context of site hydrogeology.
3. Address key data gaps between phases – working in from property line or off-site depending on gaps.
4. Ability to safely access locations with drill rig and supporting equipment.
5. Occurrence of groundwater and sufficient groundwater yield/recharge at locations.
6. Delineate extent of impacts and capture additional hydrogeologic data necessary to evaluate the feasibility of groundwater remediation technologies.

As shown on **Table 1c**, 29 delineation wells have been installed at the site to assess potential impacts. Additionally, 3 delineation wells were installed but did not produce sufficient groundwater yield to sample (**Table 1b**).

Arsenic Delineation

At the site, arsenic has historically exceeded the GWPS at compliance wells GS-AP-MW-6S, GS-AP-MW-6D, GS-AP-MW-7, and GS-AP-MW-15 and more recently, delineation wells GS-AP-MW-15V, GS-AP-PZ-18, GS-AP-MW-21V, and GS-AP-MW-23H. **Figure 8A** shows the extent of arsenic concentrations over the 0.01 mg/L GWPS observed in the first semi-annual event data. During the February-March 2022 sampling event, arsenic exceedances were limited to the Pratt Flow System and Gillespy Flow System. As shown on **Figure 8B**, arsenic concentrations in the American Flow System were below the GWPS.

Monitoring locations GS-AP-MW-15, GS-AP-MW-15V, and GS-AP-MW-21V have largely exhibited downward trends since the September 2020 sampling events and all exhibited concentrations below the GWPS for arsenic during the February-March 2022 sampling event. These trends generally correlate to decreasing pH or decreasing conductivity.

Compliance monitoring well GS-AP-MW-6S has been below the GWPS for arsenic 4 out of the previous 5 sampling events but was slightly above (0.0106 mg/L) the GWPS during the February-March 2022 sampling event. DO and ORP have been trending upward since the latter half of 2019 and generally correlate with a decreasing arsenic trend in well GS-AP-MW-6S. This trend also overlaps with the ceasing of sluiced ash to the ash pond and on-set of closure activities.

Two recently installed downgradient wells, GS-AP-MW-13R and GS-AP-MW-46, demonstrated arsenic concentrations above the GWPS (**Figure 8A**). These are the first sampling results from these two well locations and therefore, (A) concentrations may reflect temporary disequilibrium caused by the well installation process and (B) have not been delineated due to this being the first round of sampling results. It is recommended that an additional 3-4 sampling events be conducted prior to discussing these specific arsenic concentrations as exceedances attributable to the ash pond and in the context of delineation. Nearby well, GS-AP-MW-12, presents an example of the potential disequilibrium conditions leading to increased arsenic during initial sample events. The data below shows elevated arsenic during the first sampling event followed by a steady decreasing trend. The correlation with conductivity shows that disturbance created by disequilibrium may have been the source of elevated arsenic initially.

| <u>Well</u> | <u>Date</u> | <u>Conductivity (uS/cm)</u> | <u>Arsenic (mg/L)</u> |
|-------------|-------------|---------------------------------|-----------------------|
| GS-AP-MW-12 | 08-03-2016 | 668.3 | 0.11 |
| GS-AP-MW-12 | 09-20-2016 | 644.1 | 0.0746 |
| GS-AP-MW-12 | 10-25-2016 | 512.6 | 0.0728 |
| GS-AP-MW-12 | 12-13-2016 | 478.8 | 0.0538 |
| GS-AP-MW-12 | 02-08-2017 | 522.9 | 0.0427 |
| GS-AP-MW-12 | 03-29-2017 | 500.4 | 0.0404 |
| GS-AP-MW-12 | 04-26-2017 | 466.5 | 0.0372 |
| GS-AP-MW-12 | 06-07-2017 | 458.3 | 0.0307 |
| GS-AP-MW-12 | 02-20-2018 | 409.9 | 0.0282 |
| GS-AP-MW-12 | 05-15-2018 | 386.8 | 0.0253 |
| GS-AP-MW-12 | 10-16-2018 | 375.5 | 0.0203 |
| GS-AP-MW-12 | 04-16-2019 | 357.9 | 0.014 |
| GS-AP-MW-12 | 09-25-2019 | 394.56 | 0.0135 |
| GS-AP-MW-12 | 03-18-2020 | 362.88 | 0.00693 |
| GS-AP-MW-12 | 09-23-2020 | 324.73 | 0.00616 |
| GS-AP-MW-12 | 02-01-2021 | 355.4 | 0.00747 |
| GS-AP-MW-12 | 08-09-2021 | 345.79 | 0.00308 |
| GS-AP-MW-12 | 02-28-2022 | 342.75 | 0.0066 |
| GS-AP-MW-12 | 07-19-2022 | 313.53 | 0.00407 |

Figures 11A and **11B** show the extent of arsenic concentrations over the GWPS during the second semi-annual monitoring event. Key changes observed from the first semi-annual monitoring event include: (1) slight increase to arsenic in wells GS-AP-MW-15 and GS-AP-MW-25HA (above GWPS) and (2) slight decrease in arsenic in well GS-AP-MW-6S (below GWPS). However, arsenic concentrations in compliance wells GS-AP-MW-6S and GS-AP-MW-15 were not determined to be at SSLs.

As described in **Section 6.0**, an alternate source demonstration was made for historic SSLs in well GS-AP-MW-15. This ASD illustrated that elevated pH and potential grout contamination as the primary drivers for elevated concentrations. Recent data continues to support this mechanism as increases to arsenic are accompanied by similar increases in pH, sodium, potassium, and total alkalinity. It is observed that arsenic concentrations over the GWPS are dominated by pH values above 11 SU and classic grout parameters exhibit strong positive correlations with arsenic (sodium – $R = 0.86/R^2 = 0.74$; potassium – $R = 0.96/R^2 = 0.93$; alkalinity – $R = 0.7/R^2 = 0.49$).

Data from well GS-AP-MW-25HA will continue to be evaluated. Increasing arsenic within this well is strongly correlated with ORP ($R = -0.83/R^2 = 0.69$), iron ($R = 0.97/R^2 = 0.93$), sulfate ($R = -0.85/R^2 = 0.72$), and pH ever so slightly decreasing down to around 8.5 SU (from 8.7 SU). The strong negative correlation of arsenic with ORP and sulfate and the strong positive correlation with iron suggests that iron-reducing predominate sulfate-reducing condition, and the occurrence of arsenic may be related to the dissolution of iron from hydroxides.

Spatially, arsenic exceedances appear concentrated to the north of the ash pond dam where strong hydraulic gradients create a small area of preferential groundwater flow (**Figure 11A**). In this area, recent concentrations over the GWPS were observed in wells GS-AP-MW-6D, GS-AP-MW-7, and GS-AP-MW-23H. Compliance wells GS-AP-MW-6D and GS-AP-MW-7 are screened across or proximal to the Gillespy coal or equivalent horizon (when absent) and arsenic is horizontally delineated in the same horizon by delineation wells GS-AP-MW-41HS and GS-AP-MW-41HD.

Vertically, arsenic is delineated by GS-AP-MW-6S, GS-AP-MW-6V, GS-AP-MW-23V and the absence of groundwater flow beneath the GS-AP-MW-7 screened interval (no yield zones encountered in delineation wells attempted at GS-AP-MW-7V and GS-AP-MW-7VR). Arsenic in well GS-AP-MW-6S has been below the GWPS during 5 of the last 6 sampling events and correlates to a general increasing trend in DO. Unless a significant trend reversal occurs, this location is suitable for the uppermost vertical delineation of arsenic. The stratigraphy in this area is detailed in **Figure 4F**.

Additional study is required to determine the source of arsenic in horizontal delineation well GS-AP-MW-23H. The following lines of evidence suggest the possibility of a source other than the ash pond:

- (1) Screened interval is located above the base of CCR material and approximately 50 feet higher than Gillespy or equivalent monitored by GS-AP-MW-6D, GS-AP-MW-7, and GS-AP-MW-41HS/HD.
- (2) Physical location of well appears separated from preferential flow (upslope of valley) and groundwater elevations appearing separate from other wells upgradient of GS-AP-MW-23H.
- (3) Low boron concentrations and poor correlation coefficient with boron concentrations
- (4) Low lithium concentrations
- (5) $\delta^{11}\text{B}$ value of 3.2 to 4.2 ‰ which indicates strongest potential for a natural or meteoric source of boron.
- (6) Iron concentrations between 46 and 50 mg/L – which are 5 times higher than the next highest well (GS-AP-MW-26H) and much greater than the site average which otherwise ranges from 0.85 to 1.82 mg/L from 2019 to 2022.
- (7) Low pH range – which is typically observed between 5.8 and 6.3 and much lower than the site average which varies between 7.83 and 8.09 SU from 2019 to 2022.

A secondary cluster of arsenic exceeding the GWPS is located proximal to the central portions of the ash pond within the Pratt Flow System (**Figure 11A**). Here locations GS-AP-MW-13R, GS-AP-MW-46, and GS-AP-MW-15 demonstrated concentrations above the GWPS during the July-August sampling event.

GS-AP-MW-13R and GS-AP-MW-46 have been sampled only twice and therefore, (A) concentrations may reflect temporary disequilibrium caused by the well installation process and (B) have not been delineated due to this being the first round of sampling results. It is recommended that an additional 2-3 sampling events be conducted prior to discussing these specific arsenic concentrations as exceedances attributable to the ash pond and in the context of delineation.

Nearby well, GS-AP-MW-12, presents an example of the potential disequilibrium conditions leading to increased arsenic during initial sample events. The data below shows elevated arsenic during the first sampling event followed by a steady decreasing trend. The correlation with conductivity shows potential “new well” trauma associated disequilibrium.

In summary, arsenic exceedances to the north have been successfully delineated within the Gillespy Flow system. Analytical data from future sampling events will be reviewed to determine need for additional delineation and/or an alternate source demonstration study to address arsenic at locations GS-AP-MW-13R and GS-AP-MW-46. Arsenic concentration in well GS-AP-MW-25HA will be evaluated similarly over the next 2-3 sampling events.

Lithium Delineation

Lithium exceedances were observed in the American Flow System, Pratt Flow System, and Gillespy Flow System during each of the semi-annual monitoring events of 2022.

Gillespy Flow System

Figure 9A shows the spatial extent of potential lithium impacts within the Pratt and Gillespy flow systems (**Figure 9A Inset Map shows Gillespy/Pratt Transition - north of dam only**) during the first semi-annual groundwater monitoring event. North of the dam and in the Gillespy Flow System, lithium concentrations over the GWPS are noted in wells GS-AP-MW-6D, GS-AP-MW-6V, GS-AP-MW-7, GS-AP-MW-41HS, and GS-AP-MW-41HD.

Figure 12A shows the spatial extent of potential lithium impacts within the Pratt and Gillespy flow systems (**Figure 12A Inset Map shows Gillespy/Pratt Transition - north of dam only**) during the second semi-annual groundwater monitoring event. **Figure 12A** shows little appreciable change in lithium concentration relative to the first semi-annual groundwater monitoring event (**Figure 9A**). North of the dam and in the Gillespy Flow System, lithium concentrations over the GWPS are noted in wells GS-AP-MW-6D, GS-AP-MW-6V, GS-AP-MW-7, GS-AP-MW-41HS, and GS-AP-MW-41HD.

Concentrations in wells demonstrating concentrations over the GWPS generally appear stable over time. North of the dam, lithium concentrations are delineated to below GWPS concentrations in the direction of groundwater flow by wells GS-AP-MW-23H, GS-AP-MW-23V, GS-AP-MW-24H, and GS-AP-MW-42H.

As previously described in the *September 2020 Progress and Groundwater Delineation Report*, no deeper flow zones were observed beneath the screened intervals of GS-AP-MW-7, GS-AP-MW-41HD, and GS-AP-MW-6V. Boring, geophysical, hydrophysical, and “dry” piezometer data indicate that flow to the north is accommodated by 2-3 discrete fracture/bedding planes in the Gillespy Coal Group and Pratt-Gillespy Coal transition zone. This data suggests little to no groundwater yield beneath these discrete planes. Lower than GWPS concentrations in groundwater yielding zones above these discrete zones also correlate with preferential flow conditions.

Additional delineation locations are not feasible or severely limited due to topography, saturated conditions, ash pond closure activities, and utilities. However, sufficient delineation and site hydrogeologic data has been studied to understand suitable remedial technologies in these areas. For instance, a permeation grouting pilot program, is being evaluated for application across these 2-3 discrete flow zones.

As shown on **Figure 9A and Figure 12A**, the highest concentrations of lithium correlate to areas previously mined (dashed lines showing Pratt Strip Mines). This observation indicates that historical mining could contribute, to some extent, to the elevated lithium concentrations north of the dam.

As boron and lithium behave similarly in groundwater (largely unreactive), boron isotopic results can provide an indication of the source of lithium. Boron isotopes have been studied and implemented as tracer for CCR impacts to groundwater (Davidson and Bassett, 1993; Ruhl et al., 2014). These studies have shown that coal or CCR sources are definitively identified by a distinctive negative $\delta^{11}\text{B}$ signature whereas other geologic and anthropogenic sources display positive ratios. Historically, Plant Gorgas has used coals from the Appalachian Basin (Warrior Basin included). Data included in Ruhl et al. (2014) indicate that ash derived from Appalachian Basin coals display a $\delta^{11}\text{B}$ range of -2.7 to -17.6 ‰. In terms of natural occurring sources of boron, (A) groundwater typically displays a $\delta^{11}\text{B}$ range between 2 and 18 ‰, (B) precipitation between 7 and 23 ‰, and soil/rocks between 0 and -5 ‰.

In wells GS-AP-MW-6S and GS-AP-MW-7, boron isotopic results indicate lithium concentrations are sourced from coal or CCR. Conversely, corroborating potential mine or natural sources of lithium are boron isotope data from wells GS-AP-MW-6V and GS-AP-MW-41HS - which show $\delta^{11}\text{B}$ values of 13.3 ‰ and 3.6-5.0 ‰, respectively. These values strongly indicate a source other than the ash pond. Boron isotope data is summarized below.

| <u>Well</u> | <u>$\delta^{11}\text{B}$ (‰)</u> | <u>Boron Source</u> |
|---------------|---|---------------------|
| GS-AP-MW-6S | -6.2 | Coal or CCR |
| GS-AP-MW-6D | -1.7 | Mudstone/Shale |
| GS-AP-MW-6V | 13.3 | Meteoric |
| GS-AP-MW-7 | -12.8 | Coal or CCR |
| GS-AP-MW-23H | 4.2 | Meteoric |
| GS-AP-MW-41HS | 3.6-5.0 | Meteoric |

To summarize these results, boron isotopic analyses strongly suggest that pond derived impacts are restricted to wells GS-AP-MW-6S, GS-AP-MW-7, and potentially, to well GS-AP-MW-6D. Additional

study on the potential geogenic origins of lithium in this area are strongly recommended to clarify the extent of lithium impacts.

Pratt Flow System

Figure 9A also illustrates lithium exceedances observed in the Pratt Flow System where wells GS-AP-MW-15 and GS-AP-MW-21 had concentrations above the GWPS during the February-March 2022 sampling event. The ASD described in **Section 6.0** addresses exceedances in wells GS-AP-MW-15 and GS-AP-MW-21 as unrelated to the ash pond. In addition to the details provided in **Section 6.0**, and the ASD submitted in July 2021, boron isotope analyses were attempted at these two well locations – however, results were below the quantifiable limit.

Figure 12A illustrates lithium concentrations observed during the second semi-annual groundwater monitoring event. During this event, wells GS-AP-MW-15, GS-AP-MW-21, GS-AP-MW-27HR, and GS-AP-MW-29H demonstrated lithium concentrations above the GWPS.

In the areas with potential lithium impacts, horizontal delineation to below GWPS concentration can largely be derived from nearby wells: GS-AP-MW-46, GS-AP-MW-31H, GS-AP-MW-18VR, GS-AP-MW-33HO, GS-AP-MW-17, GS-AP-MW-28H, and GS-AP-MW-36H. Southeast of GS-AP-MW-21, dry wells GS-AP-MW-30H and GS-AP-MW-20 provide data that shows an absence of groundwater yield in Pratt intervals. However, the deeper American Flow System was productive and can be used in the assessment of lithium concentrations.

In terms of vertical delineation, during first semi-annual monitoring event lithium was below the GWPS in well GS-AP-MW-15V (installed in deeper American Flow System), and slightly above the GWPS in well GS-AP-MW-21V, also installed in the deeper American Flow System (**Table 6, Figure 9B**). Conversely, during the second semi-annual groundwater monitoring event, lithium slightly exceeded the GWPS in well GS-AP-MW-15V, and decreased to below the GWPS, in well GS-AP-MW-21V. Both GS-AP-MW-15V and GS-AP-MW-21V have exhibited a general decreasing trend and significantly reduced concentrations from initial sampling events. Like GS-AP-MW-15 and GS-AP-MW-21, lithium concentrations in well GS-AP-MW-15V are influenced strongly by elevated pH.

American Flow System

Figure 9B shows the spatial extent of potential lithium impacts within the American coal flow system during the first semi-annual groundwater monitoring event. Concentrations observed over the GWPS are noted for wells GS-AP-MW-26H, GS-AP-MW-21V, and GS-AP-MW-34HO.

Figure 12B shows the spatial extent of potential lithium impacts within the American coal flow system during the second semi-annual groundwater monitoring event. Concentrations observed over the GWPS are noted for wells GS-AP-MW-5R, GS-AP-MW-15V, GS-AP-PZ-16, GS-AP-MW-26H, and GS-AP-MW-34HO.

Western Areas

The lithium exceedance at GS-AP-MW-26H appears to be (1) elevated naturally occurring lithium or (2) elevated lithium due to an alternate source. Evidence supporting this:

- 1) Absence of lithium exceedances at waste boundary compliance wells upgradient of GS-AP-MW-29H (in both Pratt and American coal screened wells)
- 2) Increasing lithium concentration trend with distance away from the ash pond
- 3) Lack of other CCR indicator parameters:
 - a. Boron – 87.5% non-detect, highest concentration is a low-level, estimated (j-flagged) concentration (0.0334 mg/L (J))
 - b. Molybdenum – 87.5% non-detect or low-level, estimated concentrations
 - c. Arsenic – 87.5% non-detect or low-level, estimated concentrations
- 4) Well location adjacent to Jacobs Mine permit boundary
- 5) Concentration below highest concentration of proposed upgradient well GS-AP-MW-16S indicating lithium in normal concentration range for site.

For these reasons, no further delineation activities are planned near GS-AP-MW-26H for purposes of further delineating lithium. Furthermore, horizontal delineation would technically be achieved in this area by the below GWPS concentrations observed in GS-AP-MW-40H to the west and GS-AP-MW-38H to the south.

Southern Areas/Maxine Mine

Figure 9B shows, to the south, lithium exceedances are noted in American coal or Maxine mine screened locations GS-AP-MW-21V and GS-AP-MW-34HO during the first semi-annual groundwater monitoring event. **Figure 12B** shows that during the second semi-annual groundwater monitoring event GS-AP-MW-15V, GS-AP-PZ-16, and GS-AP-MW-34HO exhibit lithium concentrations above the GWPS.

As presented on these figures, the southern area of the site (south of line from GS-AP-MW-15V to GS-AP-MW-21V) was previously disturbed by the underground Maxine American Seam Mine. The presence of

this mine and its' large spatial extent makes it difficult to install wells that provide truly representative groundwater quality of the American coal flow system.

As previously described, lithium concentrations in well GS-AP-MW-15V are strongly influenced by elevated pH conditions which have ranged between 8.21 and 10.89 standard units (SU). Historical data shows that lithium occurs at higher concentrations with elevated groundwater pH ($R = 0.87$, $R^2 = 0.76$). This data also shows that pH conditions have been steadily decreasing since the initial sampling event in March 2020. Lithium concentrations have similarly decreased, and most notably, since the initial 3 sampling events. This data evaluation suggests that the groundwater geochemistry was likely impacted by the well installation and construction process. Since installation and the initial sampling event, geochemical data suggests that geochemical equilibrium is slowly being restored to more normal conditions. Furthermore, low-level and stable concentrations of boron, suggest a source other than CCR leachate. These data are inserted below for reference.

| <u>Well</u> | <u>Date</u> | <u>pH</u> (SU) | <u>Conductivity</u> (uS/cm) | <u>Chloride</u> (mg/L) | <u>Lithium</u> (mg/L) | <u>Boron</u> (mg/L) |
|--------------|-------------|-------------------|--------------------------------|---------------------------|--------------------------|------------------------|
| GS-AP-MW-15V | 03-18-2020 | 10.89 | 1735.33 | 108 | 0.208 | 0.0565(J) |
| GS-AP-MW-15V | 09-21-2020 | 10.07 | 1858.9 | 171 | 0.116 | 0.0712(J) |
| GS-AP-MW-15V | 02-09-2021 | 9.55 | 1811.73 | 197 | 0.122 | 0.0722(J) |
| GS-AP-MW-15V | 08-03-2021 | 8.97 | 1532.78 | 176 | 0.0986 | 0.0601(J) |
| GS-AP-MW-15V | 02-16-2022 | 8.65 | 1398.52 | 129 | 0.0788 | 0.0579(J) |
| GS-AP-MW-15V | 08-02-2022 | 8.21 | 1392.92 | 126 | 0.096 | 0.0589(J) |

For well GS-AP-MW-15V, the 2022 analytical data sets begin to show concentrations and values similar to historical averages for the American flow system beneath the Site. When pH conditions are confirmed to have stabilized, it will be most appropriate to evaluate lithium concentrations as representative and for potential groundwater impacts. At a minimum, data collected prior to 2022 appears unrepresentative of Site groundwater quality.

To the southwest, well locations GS-AP-MW-36V, GS-AP-PZ-16, and GS-AP-PZ-22 can be used to effectively demonstrate horizontal delineation in the American coal and Maxine Mine. Maxine mine

location, GS-AP-PZ-16, was below the lithium GWPS during the first semi-annual sampling event and slightly above the GWPS during the second semi-annual sampling event with an average annual concentration below GWPS (0.074 mg/L).

However, due south, horizontal delineation well GS-AP-MW-34HO does exceed the GWPS for lithium but also quite notably, appears to present a case as a potential outlier. As shown on **Figures 9B** and **12B**, the lithium concentration observed is two or more times higher than observed in wells more proximal to the waste boundary.

Regarding elevated lithium concentrations in delineation well GS-AP-MW-34HO, there are lines of evidence supporting an alternate source:

- 1) Increasing lithium concentration trend with distance away from the ash pond
- 2) Low concentrations of other CCR indicator parameters:
 - a. Boron – 0.0827 (J) to 0.109 [mg/L]
 - b. Molybdenum – 0.00386 (J) to 0.0143 (J) [mg/L]
 - c. Arsenic – 0.00308 (J) to 0.00668 [mg/L]
- 3) Chloride concentrations significantly greater than CCR pore-water
- 4) Geochemical facies representative of ancient groundwater (sodium-chloride) and different than CCR pore-water (calcium-chloride)
- 5) Boron isotopic fractionation not representative of CCR signature – where a $\delta^{11}\text{B}$ value of 13.8 to 15.7 ‰ suggests a meteoric signature of boron, and thus, lithium.
- 6) Well location surrounded by the large-scale, underground Maxine Mine.

For these reasons, no further delineation activities are planned near GS-AP-MW-34HO for purposes of further delineating lithium.

Well location GS-AP-MW-21V has demonstrated concentrations below the GWPS two of the last three sampling events and only slightly exceeded the GWPS during the first semi-annual sampling event of 2022. Overall, lithium concentrations in well GS-AP-MW-21V have decreased notably from the results of the first three sampling events. Lithium concentration patterns are paralleled by those of groundwater conductivity which were significantly elevated during the first three sampling events. Similar to the discussion of GS-AP-MW-15V, groundwater geochemistry in well GS-AP-MW-21 may have been disturbed by the physical process of well installation and construction. Trends suggest that geochemical equilibrium was restored or close to restored beginning with the second semi-annual monitoring event of

2021. No additional delineation is planned in the vicinity of GS-AP-MW-21V. Additional activities may be planned, pending a review of the July 2021 ASD.

Northern Areas

As shown on **Figures 9B** and **12B**, lithium concentrations were well below the GWPS during the first semi-annual groundwater monitoring event and slightly above during the second semi-annual groundwater monitoring event. These two data points represent the first two sampling events obtained from well GS-AP-MW-5R which was recently installed as a replacement well. Additional sampling events and data are needed to evaluate lithium concentrations as representative of Site groundwater quality. Based upon the discussion and findings of initial geochemical disequilibrium observed in wells GS-AP-MW-12, GS-AP-MW-15V, and GS-AP-MW-21V, this evaluation will likely require 6 to 8 sampling events prior to establish a sufficient understanding of geochemical behavior and trends. Recommendations will be made upon completion of this evaluation.

Molybdenum Delineation

Figures 10 and **13** shows the extent of potential molybdenum impacts to groundwater observed during 2022 sampling events. Molybdenum exceeded at compliance location GS-AP-MW-7 (Gillespy Group) located north of the ash pond dam. Horizontally, molybdenum has been delineated on-site by delineation wells GS-AP-MW-23H, GS-AP-MW-24H, GS-AP-MW-41HD, and GS-AP-MW-42H. Two vertical delineation wells have been attempted in the vicinity of well GS-AP-MW-7. GS-AP-MW-7V was installed approximately 200 feet below ground surface (BGS) in a sandstone unit and GS-AP-MW-7VR was installed across a thin coal seam encountered at a depth of 145 feet BGS. Locations GS-AP-MW-7V and GS-AP-MW-7VR did not yield sufficient groundwater recharge for well development or low-flow groundwater sampling methods.

Furthermore, borehole geophysical logs reviewed from GS-AP-MW-7, MW-7V, and MW-7VR (chiefly fluid resistivity and fluid temperature logs) did not provide robust evidence of groundwater flow zones deeper than 88 feet BGS where GS-AP-MW-7 already monitors. The fracture encountered at GS-AP-MW-7 and noted in geophysical logs acquired in MW-7V and MW-7VR appears to be the basal and most prominent flow feature in the area. No additional vertical delineation is proposed in the vicinity of GS-AP-MW-7.

7.4 STATUS OF DELINEATION

As described in **Section 7.1.1**, a 4th phase of work and study has recently been conducted. The 19 recently installed well locations were generally designed to address these potential data gaps. All newly installed and existing wells were sampled for the first time during the spring of 2022. A review of recent data identified the potential data gaps, listed below. However, since gaps are primarily associated with newly installed wells, or wells where significant signatures of natural/alternate sources are present in the data, the recommended plan of action is to:

- (1) Evaluate the occurrence, distribution, and mobility of naturally occurring lithium in subsurface geologic materials (generally using recent Gorgas Gypsum Pond study as template).
- (2) Allow for the collection of 4 to 6 additional groundwater samples in recently installed wells prior to evaluation.
- (3) Upon review of the above tasks and result, evaluate the need for potential additional delineation and assessment. Following 2022 sampling results, potential needs are outlined below.

Lithium Delineation

- Pratt Flow System
 - ***Horizontal delineation (or new compliance well), re-attempt: east and/or southeast of GS-AP-MW-21***
- American Flow System
 - *Horizontal delineation or new compliance well to the southeast (between GS-MW-30HA and GS-AP-MW-34HO).*

Arsenic Delineation

- Pratt Flow System
 - ***Potential Future Action: (A) Horizontal delineation west-southwest of GS-AP-MW-11R and off-set vertical delineation, (B) Horizontal delineation east of GS-AP-MW-46 and off-set vertical delineation. These are labeled potential future actions pending the recommendation to re-evaluate data and trends after 6-8 sampling events. Rationale for this recommendation is provided in the Arsenic Delineation portion of Section 7.1.3.***

The bolded text in the bulleted list above indicates that an ASD has been presented to address these exceedances and selected data gaps. A review of the data revealed no data gaps associated with molybdenum impacts.

7.5 GROUNDWATER REMEDY AND CORRECTIVE ACTION

An Assessment of Corrective Measures (ACM) for groundwater impacts was conducted and formally submitted to ADEM in June 2019. Additional data analyses and investigations conducted since the ACM culminated with a more detailed Groundwater Remedy Selection Report, submitted in December 2021, and a Corrective Action Groundwater Monitoring Program document submitted in March 2022.

| Submittal | Submittal Date | Purpose |
|--|----------------|--|
| Assessment of Corrective Measures | 06/2019 | Initial evaluation of the feasibility, performance, and implementation of known and emerging groundwater remediation technologies against site conditions and factors. |
| Groundwater Remedy Selection Report | 12/2021 | Formal selection and detailed description of groundwater remedies selected for implementation at the site. |
| Corrective Action Groundwater Monitoring Program | 03/2022 | Plan document to describe process and program for implementation and monitoring of groundwater remedies selected at the site. |

7.5.1 Groundwater Remedy Selection

As described in **Section 5** and **Section 7.3**, geochemical data gathered and analyzed indicates that groundwater impacts may be constrained to a small area north of the dam and between wells GS-AP-MW-6S, GS-AP-MW-7, and GS-AP-MW-41HD. A small footprint of impacted groundwater flowing through well defined, discrete bedding provides an opportunity for a very targeted groundwater remediation program. The Groundwater Remedy Selection Report described the selected remedies for groundwater corrective actions at the site:

- Source control to include dewatering, consolidation, and capping of the CCR unit,
- Permeation grouting in areas of higher concentrations of constituents of interest (COI) and/or preferential groundwater flow pathways to prevent COI movement,
- Monitored natural attenuation (MNA) over the entire site.

Geochemical manipulation is also being researched for feasibility in application and delivery to these well constrained, discrete flow intervals. A scope of work is also being established to guide potential compatibility testing.

Closure of the CCR Unit – including dewatering, consolidation, and capping – will greatly reduce or eliminate source contributions to groundwater. Permeation grouting was selected because, as a corollary to barrier walls, it impedes groundwater flow and helps prevent the migration of COIs away from the source area. Additionally, permeation grouting can also be viewed as a complementary method to MNA – where either the sealing of groundwater flow or the slowing of the flow path away from the source area provides longer residence time for MNA processes or geochemically enhanced MNA processes to reduce COI concentrations. MNA was selected based upon the evidence gathered during initial investigations - which highlighted that these processes are already occurring.

7.5.2 Corrective Action – Groundwater Monitoring Program

The Corrective Action Groundwater Monitoring Program describes early plans for implementation and monitoring of groundwater remedies described above. This plan chunked the program into two stages.

- Stage 1 will include ongoing compliance monitoring, remedial effectiveness monitoring for permeation grouting, MNA performance monitoring, sentinel/clean-line monitoring (including surface water monitoring), and demonstration that Site conditions remain protective of potential human and ecological receptors. Prompt action will be taken should data or data trends indicate such actions are warranted.
- Stage 2 monitoring will be implemented upon Site closure, with the first 2 years of Stage 2 monitoring consisting of background data collection to serve as a baseline. Stage 2 monitoring will be composed of ongoing compliance monitoring, additional wells or sampling locations as needed to evaluate remedy effectiveness, additional MNA parameters as needed, mass and mass flux calculations, additional monitoring associated with permeation grouting (if implemented), re-evaluation of natural attenuation processes and efficacy every 10 years, and demonstration that Site conditions remain protective of potential human and ecological receptors.

Stage 1

The initial phase of Stage 1 has implementation tasks associated with each selected groundwater remedy that serve as a foundation for the remainder of Stage 1 and Stage 2:

| Selected Remedy | Implementation Task(s) |
|-----------------------------------|--|
| Monitored Natural Attenuation | 1. Implementation of expanded MNA sampling parameters. 2. Further assessment of MNA monitoring network. |
| Permeation Grouting Program | 1. Plan, Work Scope development and field program for the detailed characterization of fracture flow characteristics and data needs supporting a permeation grouting pilot 2. Implementation of Permeation Grouting Pilot Program using data collected from detailed characterization. |
| Source Control/Closure Activities | 1. Evaluation of geochemical changes in groundwater with respect to transient closure activities (excavation, de-watering, etc). 2. Implementation of field data collection instruments/telemetry within key monitoring wells to further understand the nature of geochemical changes over time and with respect to closure activities and MNA/geochemical modelling. |

Implementation of Monitored Natural Attenuation

MNA sampling parameters were added to the sampling plans and analyzed in the laboratory during the February-March 2022 sampling event (**Table 6**) and continued during the July-August 2022 sampling event (**Table 7**). These parameters in addition to field parameters, Appendix III, and Appendix IV parameters are utilized to study the processes that govern or facilitate MNA as well as changes in geochemical conditions. Parameters will be included in the site geochemical model.

Permeation Grouting Program

An Implementation and Data Requirements Plan – Permeation Grouting Pilot Program is being drafted to outline means and methods for the complete geologic and hydrogeologic characterization of the area of the site selected for the pilot study. This document provides a plan for the detailed characterization of fracture flow through the Pottsville Formation – including standards for core logging, downhole geophysical methods, hydrogeophysical methods, and aquifer performance testing. This plan will be executed in the field and data analyzed to complete the initial study or foundation phase of the Permeation Grouting Pilot Program.

The tentative schedule for this initial foundation phase is outlined as:

- Implementation and Data Requirements Plan – Permeation Grouting Pilot Program (1st quarter 2023).
- Fracture-Flow Field Study and Data Analyses – 4th quarter 2022 to 2nd quarter 2023
- Permeation Grouting Pilot Program – TBD, pending requisite documents and approvals supporting the injection program.

Source Control/Closure Activities

The primary task and objectives at the on-set of Stage 1 include: (1) monitoring and reviewing for changes in geochemical conditions that would invoke an adaptive trigger, (2) studying transient changes in groundwater quality that may be the result of physical closure activities, and (3) determination of primary mechanisms and geochemical relationships at play in changing geochemical conditions. The understanding of mechanisms and relationships leading to geochemical changes in groundwater provides opportunity to further understand natural MNA processes at the site and document benefits/impacts of source control as closure progresses.

As a part of the Semi-Annual Monitoring Reporting process, groundwater quality is being evaluated with respect to:

- 1) Concentration Trends
 - a) By Analyte
 - b) By Locations
 - c) In Aggregate
- 2) Geochemical Correlations
- 3) Concentration Trends/Geochemical Correlations cross-referenced to by recent or active ash pond closure activities.

To facilitate further understanding of trends and correlating relationships, AquaTROLL instrumentation is being installed at select key monitoring well locations for the near continuous monitoring of field parameters. This additional data will allow for a better understanding of the degree of changes driven by different types of closure activities, the response of site flow systems, and possible correlations/changes noted in semi-annual monitoring data.

AquaTROLL instrumentation will be installed during the first half of 2023 (pending supply chain issues) at the following monitoring locations:

- GS-AP-MW-6
- GS-AP-MW-6D
- GS-AP-MW-6V
- GS-AP-MW-7
- GS-AP-MW-18VR
- GS-AP-MW-23H
- GS-AP-MW-23V
- GS-AP-PZ-16

7.5.3 Update on Monitoring Period Activities

Activities focused on corrective action were performed in 2022. The core activities included:

- 1) Desktop study for injectability of bedrock and injection treatability studies
- 2) Sampling of MNA parameters
- 3) Initiation of geogenic evaluation

The objectives of the hydraulic desktop study for injectability of bedrock are twofold, as follows:

- Identify a location near the Plant Gorgas Ash Pond most appropriate for conducting an injection pilot test.
- Provide information that will support scoping a pre-pilot test exploratory field program and, ultimately, the design and implementation of the pilot test.

Treatability studies are also being performed to evaluate reagent composition, dosing, effectiveness, and sequencing (if applicable) for in situ groundwater treatment of COIs via injection. The following activities have been completed:

- Selection of potential locations where a field pilot test may be appropriate based on stratigraphy, COIs at statistically significant levels in groundwater, available bedrock characterization data, and physical accessibility
- Preliminary modeling of the hydraulics of potential reagent injections that may be performed to treat COIs in fractured bedrock–
 - The input parameters for this modeling include hydraulic gradients and groundwater flow directions, depths to groundwater, hydraulic conductivities, mean fracture porosities, and potential treatment zone depths. The results of this preliminary modeling include estimates of injection rates, durations, and volume and areal extent of treatment solution delivery.

Work, either ongoing or scheduled, includes the following:

- Treatability testing to identify suitable reagents that can be used to treat COIs in situ–This work will include an estimate of the mass of precipitated minerals that may form on the fracture surfaces

as a result of the injected treatment solution and its impact on the aquifer transmissivities and hydraulic conductivities.

- Bedrock core sample laboratory analysis of geochemistry (cation exchange capacity; aluminum-, manganese-, and iron-oxide extractions; bulk chemistry; mineralogy; and microanalysis for COIs in fracture fill) and physical parameters (matrix hydraulic conductivity, porosity, and bulk density)
 - The geochemistry results will inform the treatability studies described in the previous bullet. The physical parameters will be used in the predictive modeling as detailed in the following bullets. Both the geochemical and physical analyses will inform the design and implementation of the field pilot tests.

The results of this desktop study for injectability of bedrock and treatability studies will support the following activities:

- Identify data gaps and develop a scope of exploratory field activities that may be conducted to fill those data gaps.
- Perform additional predictive modeling of pilot test injections to help ensure appropriate injection concentration and volume, and monitoring duration and frequency.
- Design and implement the pilot test.

7.6 GROUNDWATER QUALITY CHANGES AND TRENDS

Relatively few groundwater quality trends and changes have been noted to date at the Site. As described in **Section 4.1**, numerous groundwater elevation decreases were noted during the July-August 2022 sampling event. The location, screened interval, and magnitude of groundwater elevation change suggests that mining operations across the American coal seam to the south are a potential driver of these observed changes.

However, smaller magnitude changes in Pratt coal wells in more central areas of the Site may be related to recent initiation of ash pond dewatering operations. These potential locations include wells GS-AP-MW-2, GS-AP-MW-3, and GS-AP-MW-12.

The lack of obvious or significant trends is likely in part due to (1) dewatering operations not starting until the first week of July 2022, (2) the low permeability nature of the subsurface flow systems, and (3) the number of wells that have been recently installed or replaced (too few data points for trend analyses).

Downward Trends

By Volume per Well

A review of downward trend volume shows that wells GS-AP-MW-3 (11), GS-AP-MW-2 (10), GS-AP-MW-9V (10), and GS-AP-MW-7 (9) show the highest counts of non-statistical downward trends (3 consecutive decreases). Spatially, these wells are clustered north-central relative to the ash pond. Downward trends appear to be most commonly occurring across the following constituents at these locations: manganese, barium, boron, calcium, magnesium, lithium, and turbidity.

Decreasing arsenic trends tend to be negatively correlated with DO and ORP.

By Volume per Analyte

A review of downward trend volume shows that analytes barium (14), boron (10), chloride (11), fluoride (12), magnesium (10), ORP (10), sulfate (13), and turbidity (12) are currently the most common exhibiting downward trends.

In terms of Appendix IV COI, there are currently (A) 7 downward trends for arsenic, (B) 8 downward trends for molybdenum and (B) 4 downward trends for lithium. The most significant of these downward trends are:

- Arsenic: GS-AP-MW-15V
- Lithium: GS-AP-MW-21, GS-AP-MW-3, GS-AP-MW-34HO
- Molybdenum: GS-AP-MW-21.

At the present, downward trends for Appendix IV COI are observed at these well locations:

- Lithium: GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-3, GS-AP-MW-36H
- Arsenic: GS-AP-MW-15V, GS-AP-MW-11R, GS-AP-MW-29H, GS-AP-MW-36H, GS-AP-MW-40H, GS-AP-MW-41HD, GS-AP-MW-7
- Molybdenum: GS-AP-MW-21, GS-AP-MW-254HA, GS-AP-MW-3, GS-AP-MW-41HS, GS-AP-MW-42H, GS-AP-MW-6V, GS-AP-MW-9V, GS-AP=PZ-18R.

Changes Relative to GWPS – First Semi-Annual Monitoring Period

The following wells showed concentration decreases to below the GWPS:

- GS-AP-MW-3: Lithium
- GS-AP-MW-15: Arsenic
- GS-AP-MW-15V: Arsenic, Lithium.

The following wells showed concentration increases above the GWPS:

- GS-AP-MW-6S: Arsenic
- GS-AP-MW-21V: Lithium
- GS-AP-MW-15V: Arsenic, Lithium.

Despite the increase, GS-AP-MW-6 has exhibited arsenic concentrations below GWPS 4 out of the most recent 5 sampling events and has shown decreasing trend.

Changes Relative to GWPS – Second Semi-Annual Monitoring Period

The following wells showed concentration decreases to below the GWPS:

- GS-AP-MW-6S: Arsenic
- GS-AP-MW-15V: Arsenic
- GS-AP-MW-21V: Lithium.

The following wells showed concentration increases above the GWPS:

- GS-AP-MW-27HR: Lithium
- GS-AP-MW-15: Arsenic
- GS-AP-MW-15V: Lithium.
- GS-AP-PZ-16: Lithium
- GS-AP-MW-29H: Lithium
- GS-AP-MW-25HA: Arsenic.

Aggregate Annual Average Trends

The following provides a summary of average annual concentrations in compliance wells (upgradient, downgradient, abandoned) since the first year of groundwater monitoring. As shown below, annualized average concentrations during 2022 for boron, arsenic, lithium, and molybdenum were the lowest since

Plant Gorgas Ash Pond
2022 Annual Groundwater Monitoring and Corrective Action Report

monitoring began. These annualized averages will continue to be evaluated and reviewed each year to determine overall trends. Averages presented below could be relational to ash pond closure activities, geochemical disequilibrium and return to equilibrium processes, and abandonment/replacement activities.

| Year | Boron (mg/L) | Arsenic (mg/L) | Lithium (mg/L) | Molybdenum (mg/L) |
|-------------|---------------------|-----------------------|-----------------------|--------------------------|
| 2016 | 0.4063 | 0.0272 | 0.0872 | 0.0259 |
| 2017 | 0.3965 | 0.0270 | 0.0923 | 0.0232 |
| 2018 | 0.3894 | 0.0265 | 0.0898 | 0.0271 |
| 2019 | 0.3267 | 0.0237 | 0.0967 | 0.0259 |
| 2020 | 0.2655 | 0.0259 | 0.1075 | 0.0337 |
| 2021 | 0.2999 | 0.0243 | 0.1119 | 0.0284 |
| 2022 | 0.2406 | 0.0193 | 0.0742 | 0.0184 |

8.0 SUMMARY AND CONCLUSIONS

Semi-annual monitoring took place in February/March and July/August 2022. Statistical evaluations of the 2022 monitoring data identified SSLs of Appendix IV constituents above the GWPS. To address previously identified SSLs, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on December 16, 2021, and a Corrective Action Groundwater Monitoring Program plan on March 15, 2022. Focus on the Site now begins to shift towards planning and implementation of remedies along with continued evaluation of assessment and compliance data.

The following future actions will be taken or are recommended for the Site:

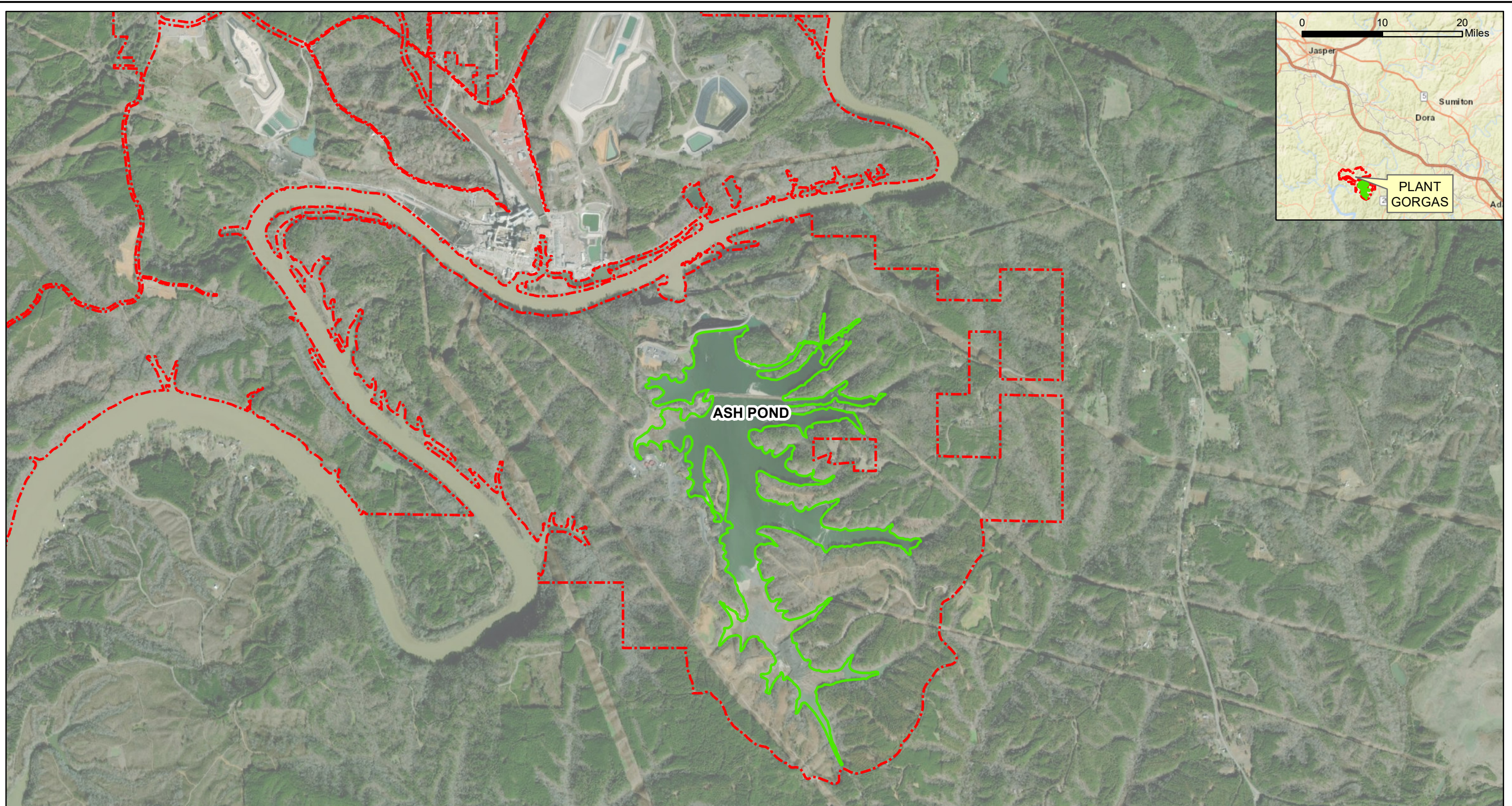
- Continue with phase 1 implementation of the Permeation Grouting Pilot Program for the remediation of arsenic, lithium, and molybdenum.
- Evaluate technical and implementation feasibility of geochemical manipulation and enhanced MNA technologies.
- Installation of near real-time instrumentation for the monitoring of potential changes in field parameter data in response to ash pond closure activities.
- Evaluation of recently collected MNA parameter data.
- Conduct the first semi-annual monitoring event and submit the semi-annual groundwater monitoring report summarizing the findings to ADEM by July 31, 2023.

9.0 REFERENCES

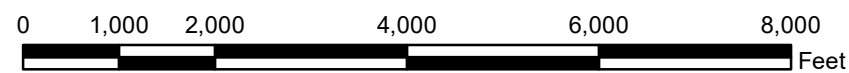
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Figures



- Legend**
- Ash Pond Boundary
 - Property Boundary (Approximate)

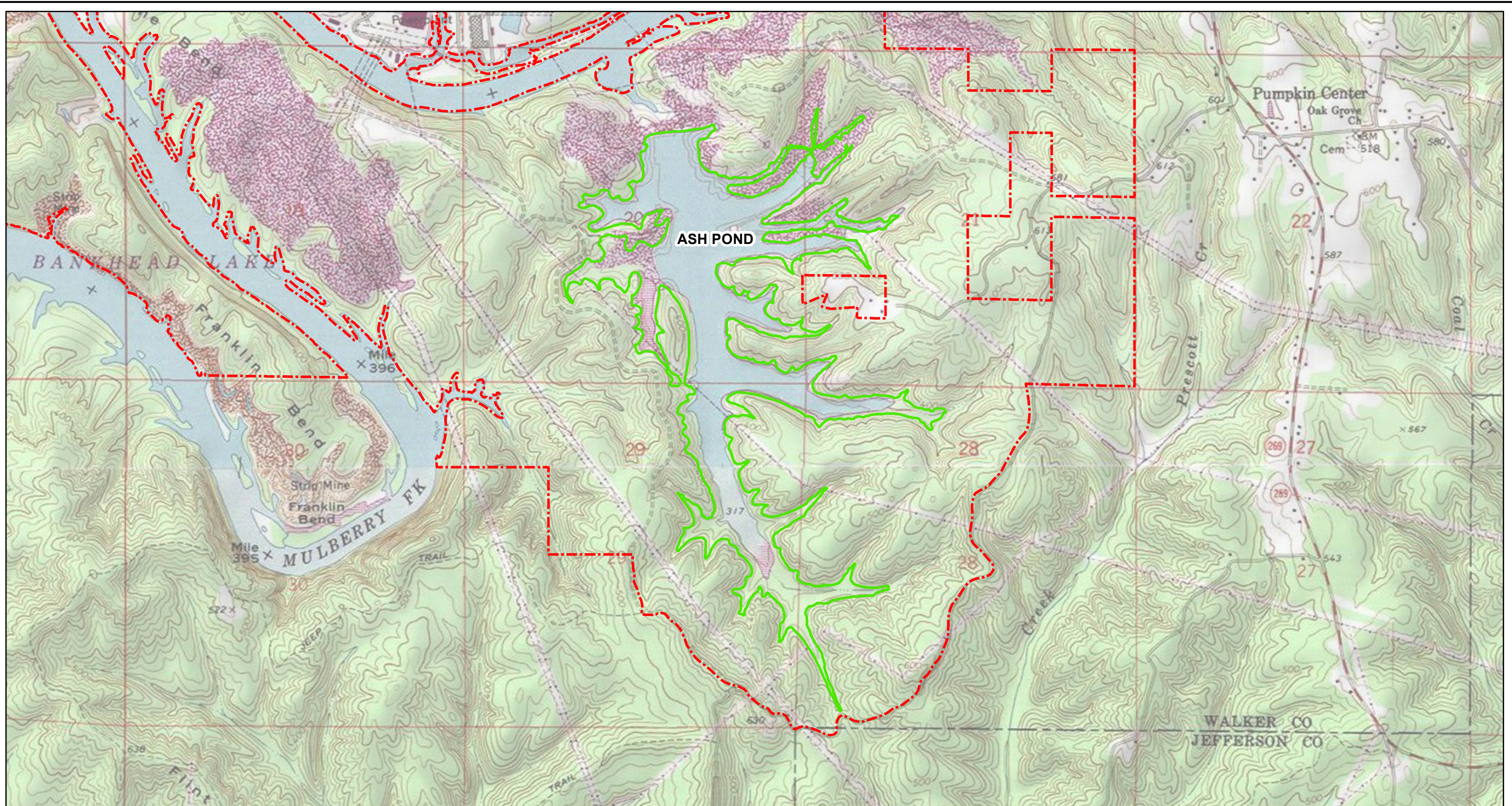


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| DATE | 12/10/2020 |
| DRAWN BY | KWR |
| CHECKED BY | GBD |

DRAWING TITLE
**SITE LOCATION MAP
 PLANT GORGAS ASH POND**

FIGURE NO
FIGURE 1





- Legend**
- ▭ Ash Pond Boundary
 - ▭ Property Boundary (Approximate)

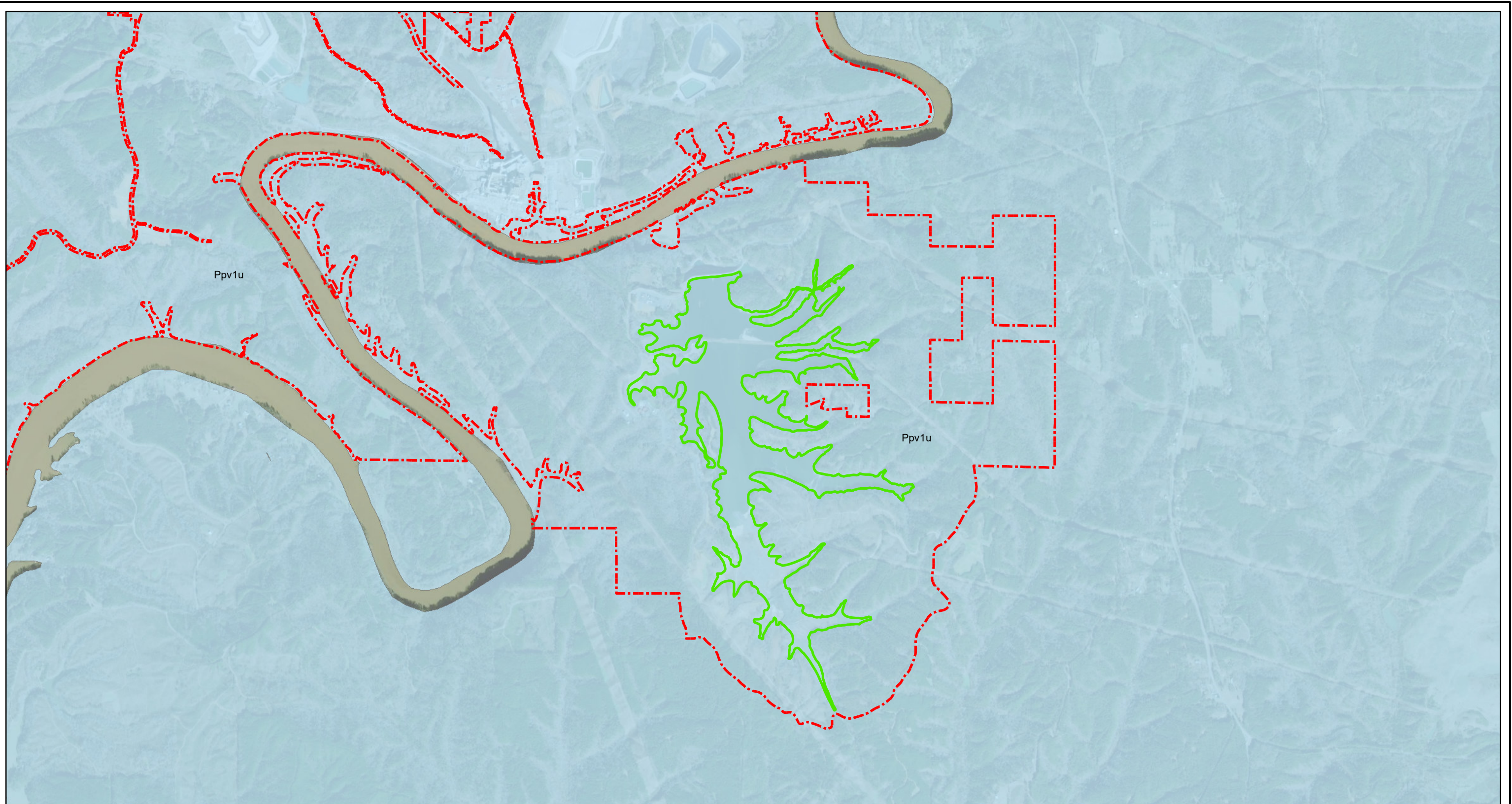


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**SITE TOPOGRAPHIC MAP
 PLANT GORGAS ASH POND**

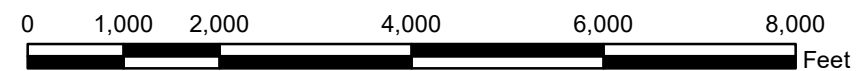
FIGURE NO
FIGURE 2





Legend

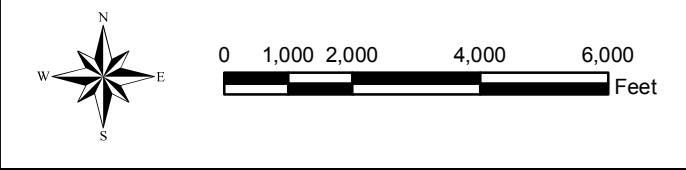
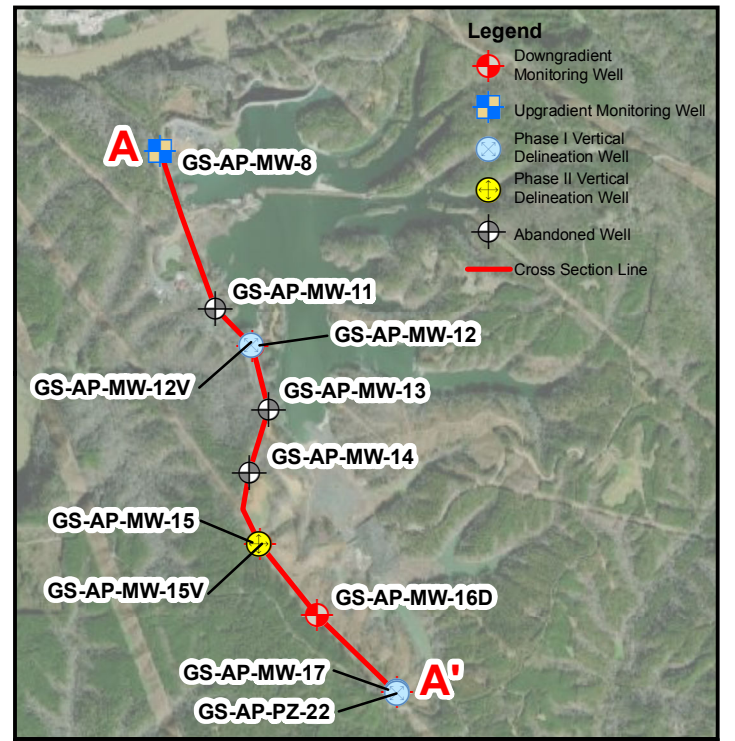
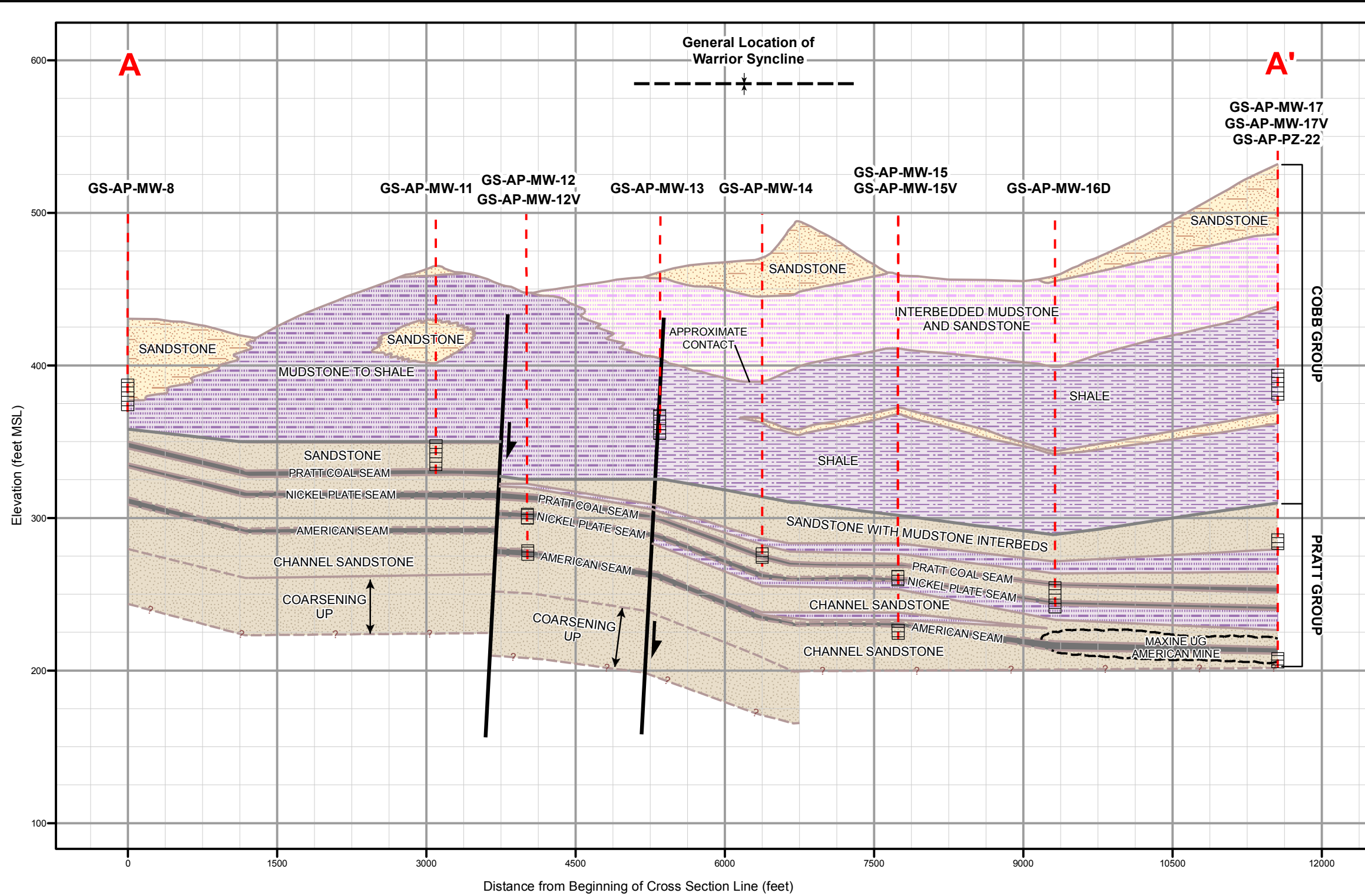
- Ash Pond Boundary
- Property Boundary (Approximate)
- Geologic Units
- Pottsville Formation (upper part), Appalachian Plateaus (Ppv1u)



| | |
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| DATE | 12/10/2020 |
| DRAWN BY | KWR |
| CHECKED BY | GBD |

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| DRAWING TITLE | |
| SITE GEOLOGIC MAP PLANT GORGAS ASH POND | |
| FIGURE NO | FIGURE 3 |
| Southern Company | |

General Location of
Warrior Syncline



Legend

| | |
|--|--------------------------|
| | Screen Interval |
| | Monitoring Well Location |
| | Group Boundary |
| | Strata Boundary |
| | Inferred Strata Boundary |
| | Fault |
| | Mine |
| | Syncline |

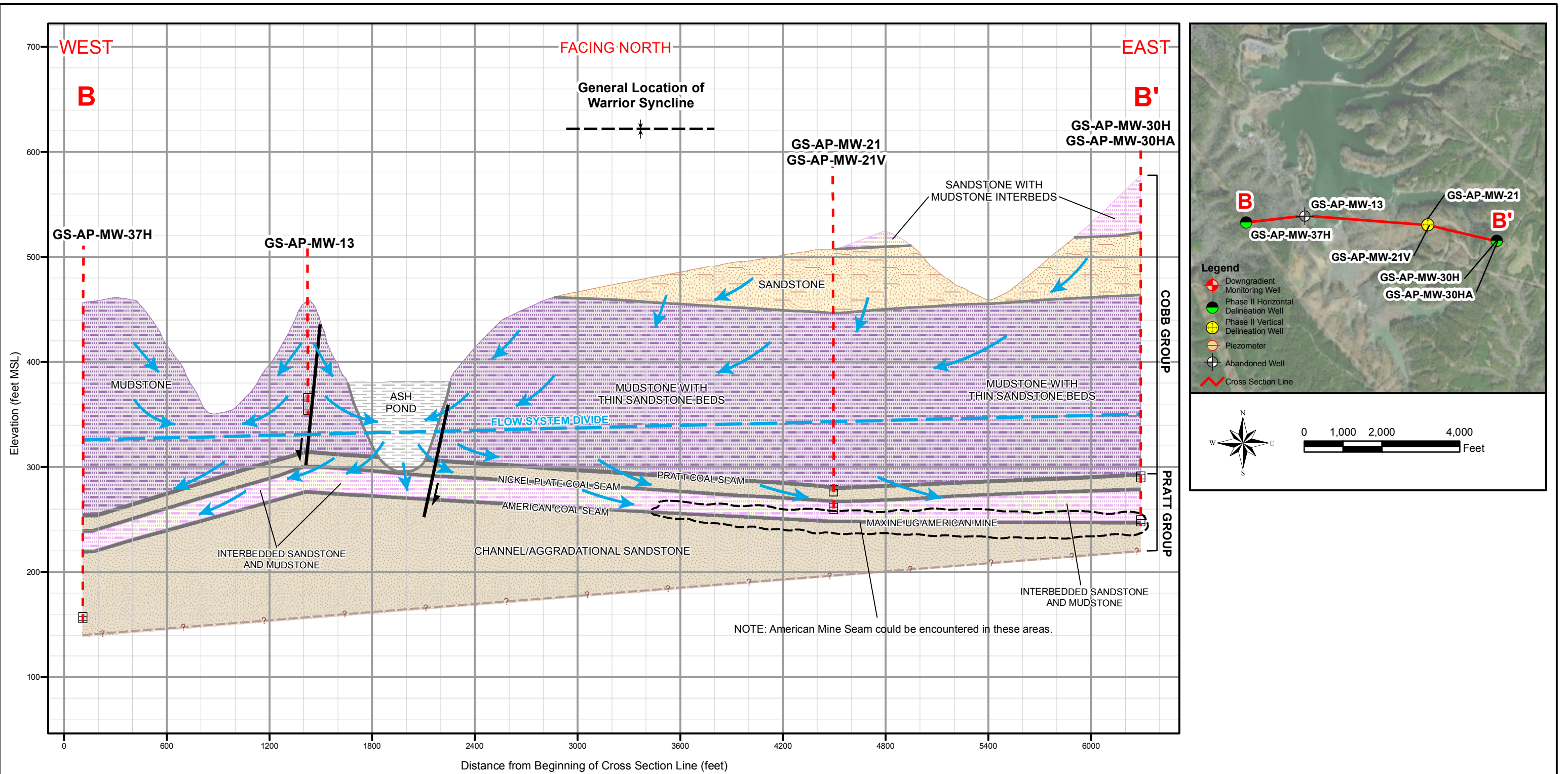
Geologic Units

| | |
|--|------------------------------------|
| | Shale |
| | Mudstone to Shale |
| | Interbedded Mudstone and Sandstone |
| | Sandstone |
| | Channel Sandstone |
| | Coal |

Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Elevation data are reported using feet above Mean Sea Level (MSL).
 3. Monitoring wells GS-AP-MW-8, GS-AP-MW-13, and GS-AP-MW-17V display groundwater elevations that are higher than the ash pond elevation (382.5 ft MSL).
 4. Vertical exaggeration = 15x.

| | |
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| SCALE | As Shown |
| DATE | 9/22/2020 |
| DRAWN BY | KWR |
| CHECKED BY | GBD |

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| DRAWING TITLE | |
| GEOLOGIC CROSS SECTION A - A' PLANT GORGAS ASH POND | |
| FIGURE NO | FIGURE 4A |
| Southern Company | |



- Legend**
- Cross Section Line
 - - - Monitoring Well Location
 - Screen Interval
 - Groundwater Flow Direction
 - - - Flow System Divide
 - Group Boundary
 - Strata Boundary
 - Fault
 - Mine
 - Inferred Boundary
 - ⊕ Syncline

- Geologic Units**
- Ash Pond (Fill)
 - Mudstone with Thin Sandstone Interbeds
 - Sandstone with Mudstone Interbeds
 - Sandstone
 - Channel/Aggradational Sandstone
 - Coal

Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Dashed blue line represents approximate boundary between water-table flow system and deeper Pratt flow system.
 3. Elevation data are reported using feet above Mean Sea Level (MSL).
 4. Vertical exaggeration = 6x.

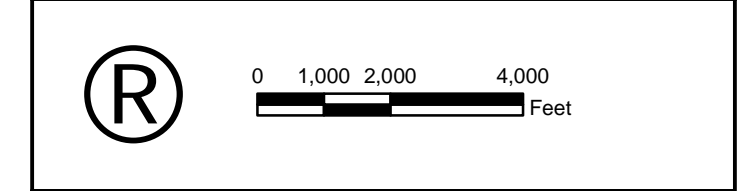
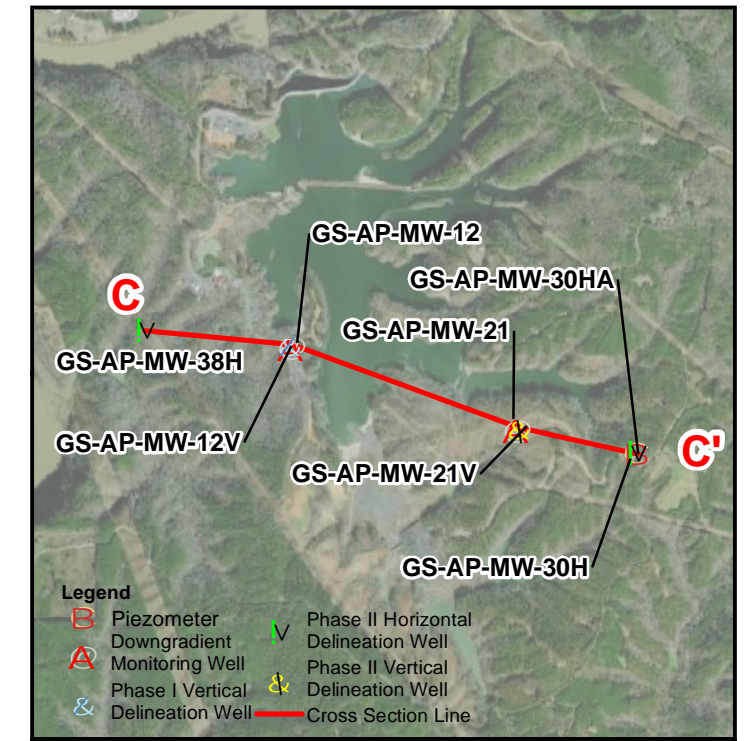
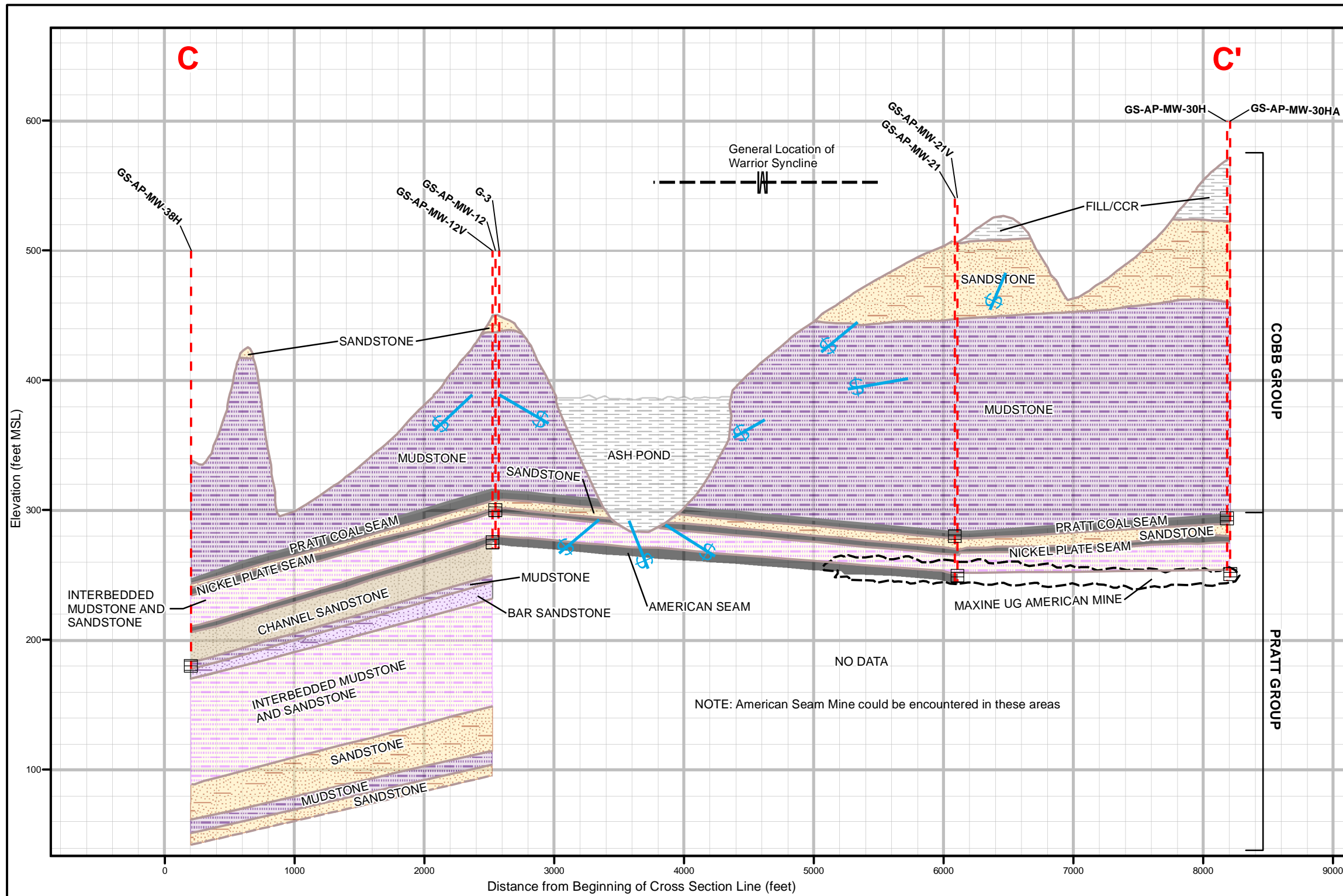
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| DATE | 9/29/2020 |
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| CHECKED BY | GBD |

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GEOLOGIC CROSS SECTION B - B' PLANT GORGAS ASH POND

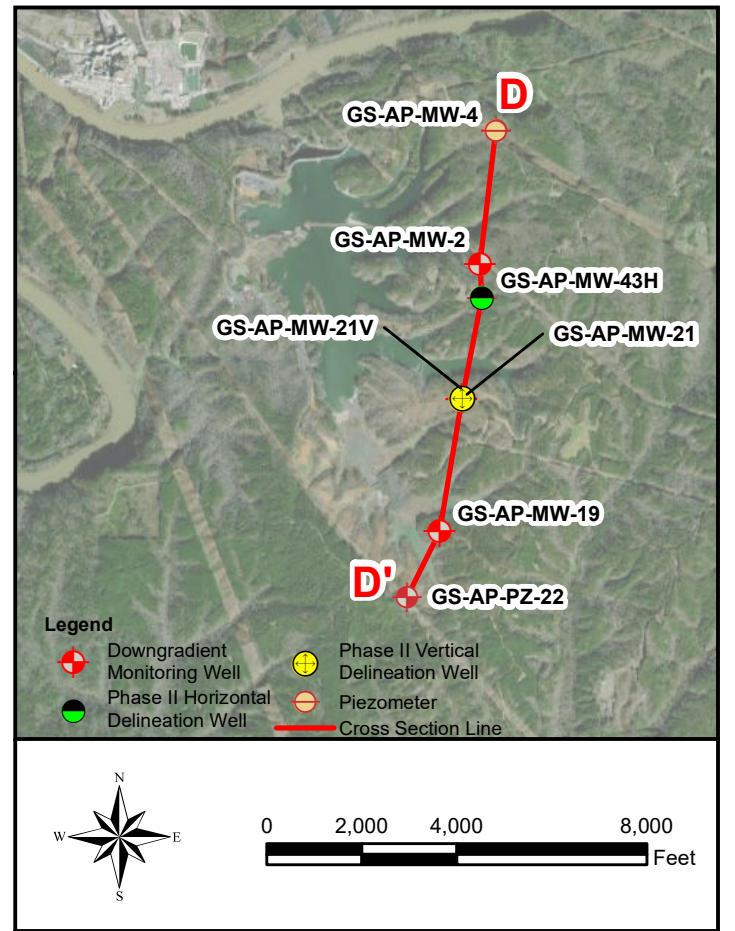
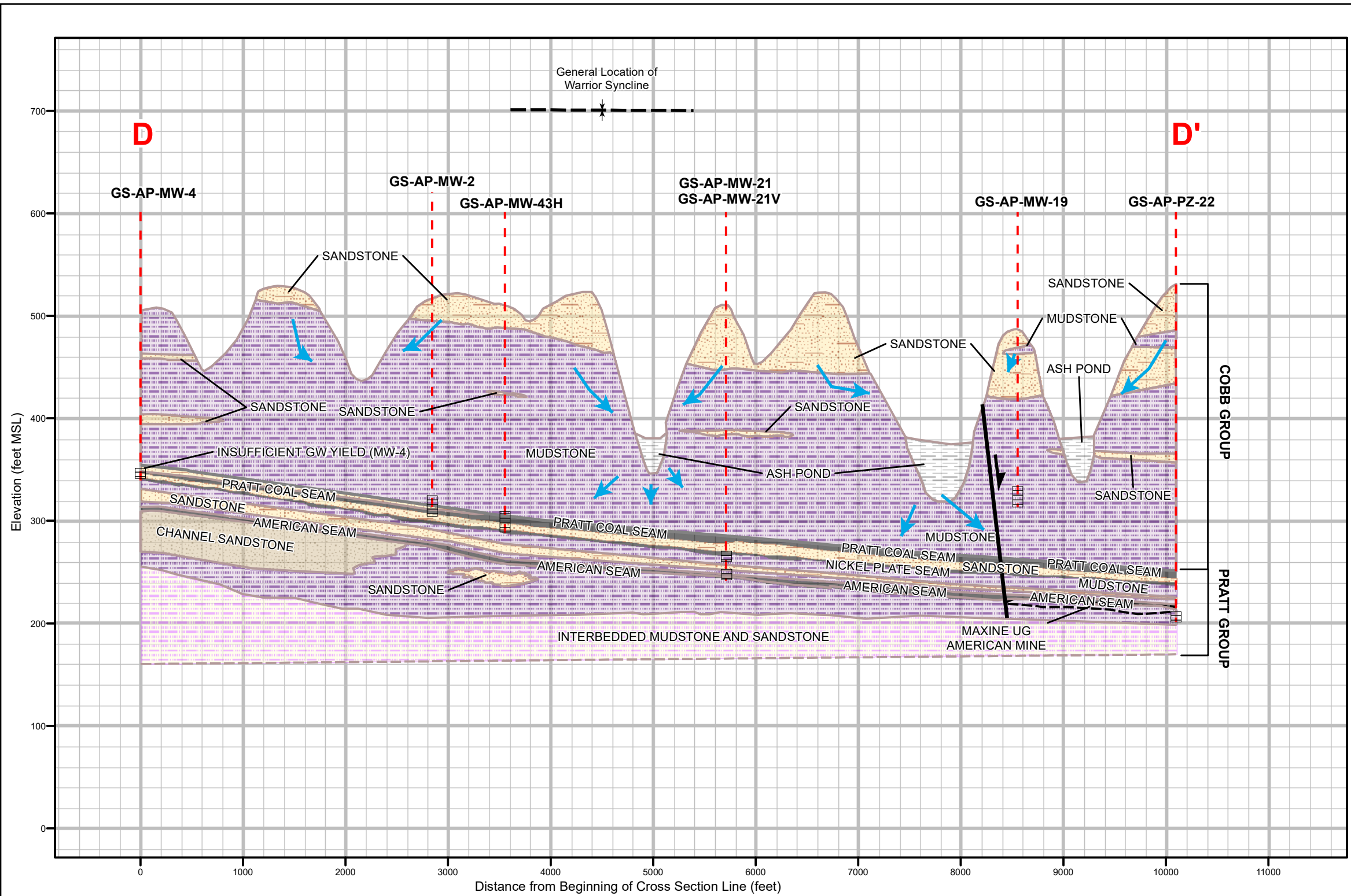
FIGURE NO

FIGURE 4B



- Notes:
1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Elevation data are reported using feet above Mean Sea Level (MSL).
 3. Maxine Mine was not encountered at well GW-AP-MW-21
 4. Water samples were collected between March 18 and March 24, 2018
 5. mg/L indicates milligrams per liter.
 6. ND indicates not detected above the laboratory method detection limit.
 7. Vertical exaggeration = 10x
 8. GWPS indicates Groundwater Protection Standard.

| | | | |
|---|-------------------|---|--|
| Legend Screen Interval Monitoring Well Location Groundwater Flow Direction Geologic Units Group Boundary Strata Boundary Inferred Strata Boundary Mine Syncline Fill/CCR Bar Sandstone Mudstone Interbedded Mudstone and Sandstone Sandstone Channel Sandstone Coal | SCALE As Shown | DRAWING TITLE GEOLOGIC CROSS SECTION C - C' PLANT GORGAS ASH POND | |
| | DATE 9/15/2020 | FIGURE NO FIGURE 4C | |
| | DRAWN BY MDM | Southern Company | |
| | CHECKED BY GBD | | |



Legend

- ◆ Downgradient Monitoring Well
- Phase II Vertical Delineation Well
- Phase II Horizontal Delineation Well
- Piezometer
- Cross Section Line



Legend

- - - Monitoring Well Location
- Screen Interval
- Groundwater Flow Direction

Geologic Units

- Group Boundary
- Strata Boundary
- Inferred Strata Boundary
- Mine
- Fault
- Syncline
- Fill/CCR
- Mudstone
- Interbedded Mudstone and Sandstone
- Sandstone
- Channel Sandstone
- Coal

Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Elevation data are reported using feet above Mean Sea Level (MSL).
 3. Vertical exaggeration = 10x.

SCALE
As Shown

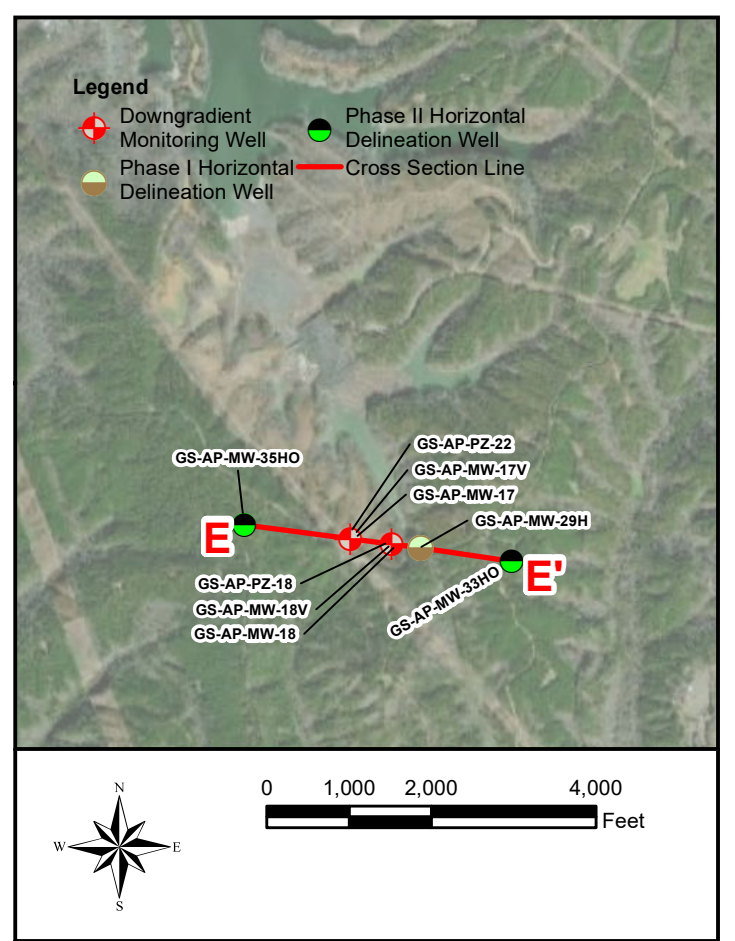
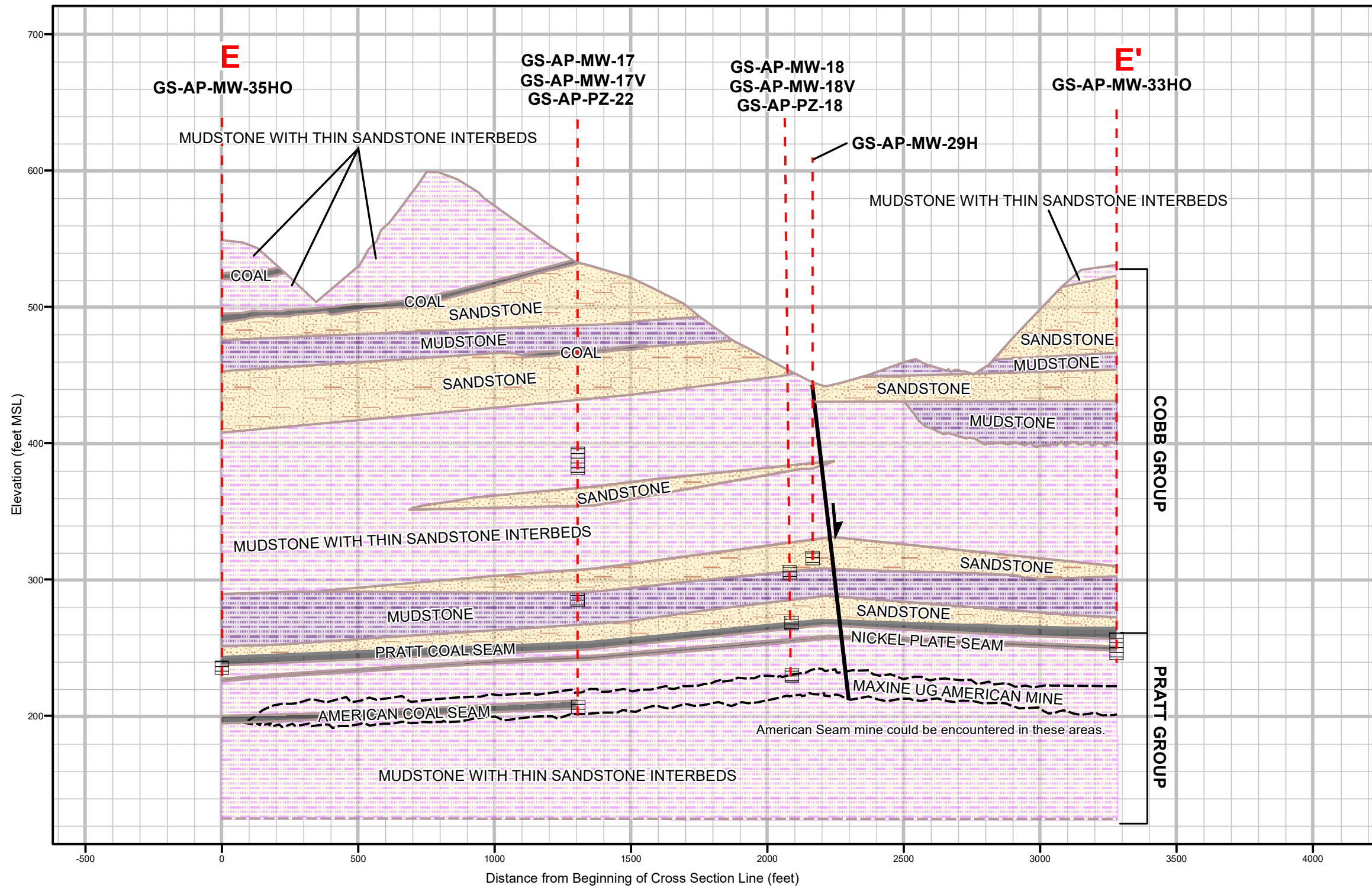
DATE
9/21/2020

DRAWN BY
JEM

CHECKED BY
GBD

DRAWING TITLE
**GEOLOGIC CROSS SECTION D – D'
PLANT GORGAS ASH POND**

FIGURE NO
FIGURE 4D



Legend

- Monitoring Well Location
- Screen Interval

Geologic Units

- Group Boundary
- Strata Boundary
- Inferred Strata Boundary
- Mine
- Fault
- Mudstone
- Mudstone with Thin Sandstone Interbeds
- Sandstone
- Coarse Sandstone
- Coal

Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Elevation data are reported using feet above Mean Sea Level (MSL).
 3. Vertical exaggeration = 5x.

SCALE
As Shown

DATE
9/21/2020

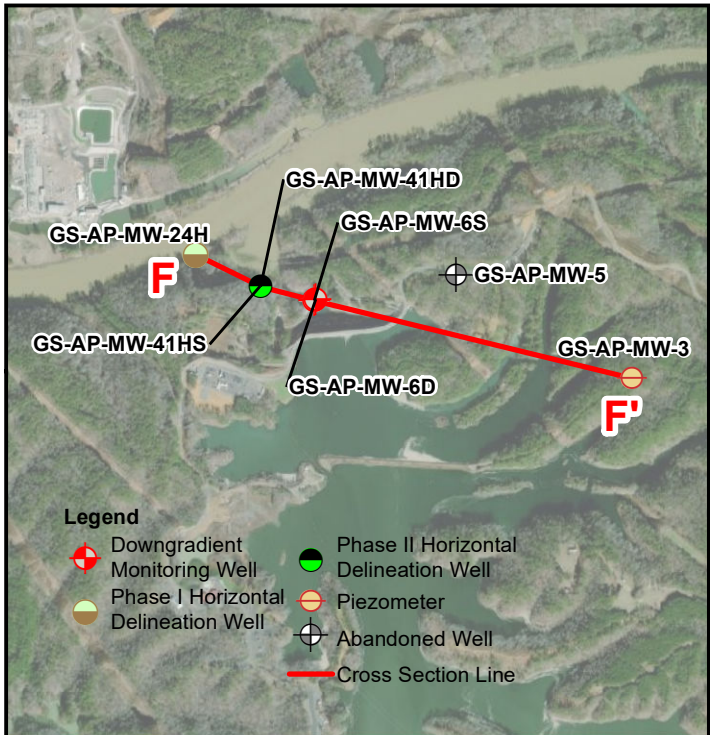
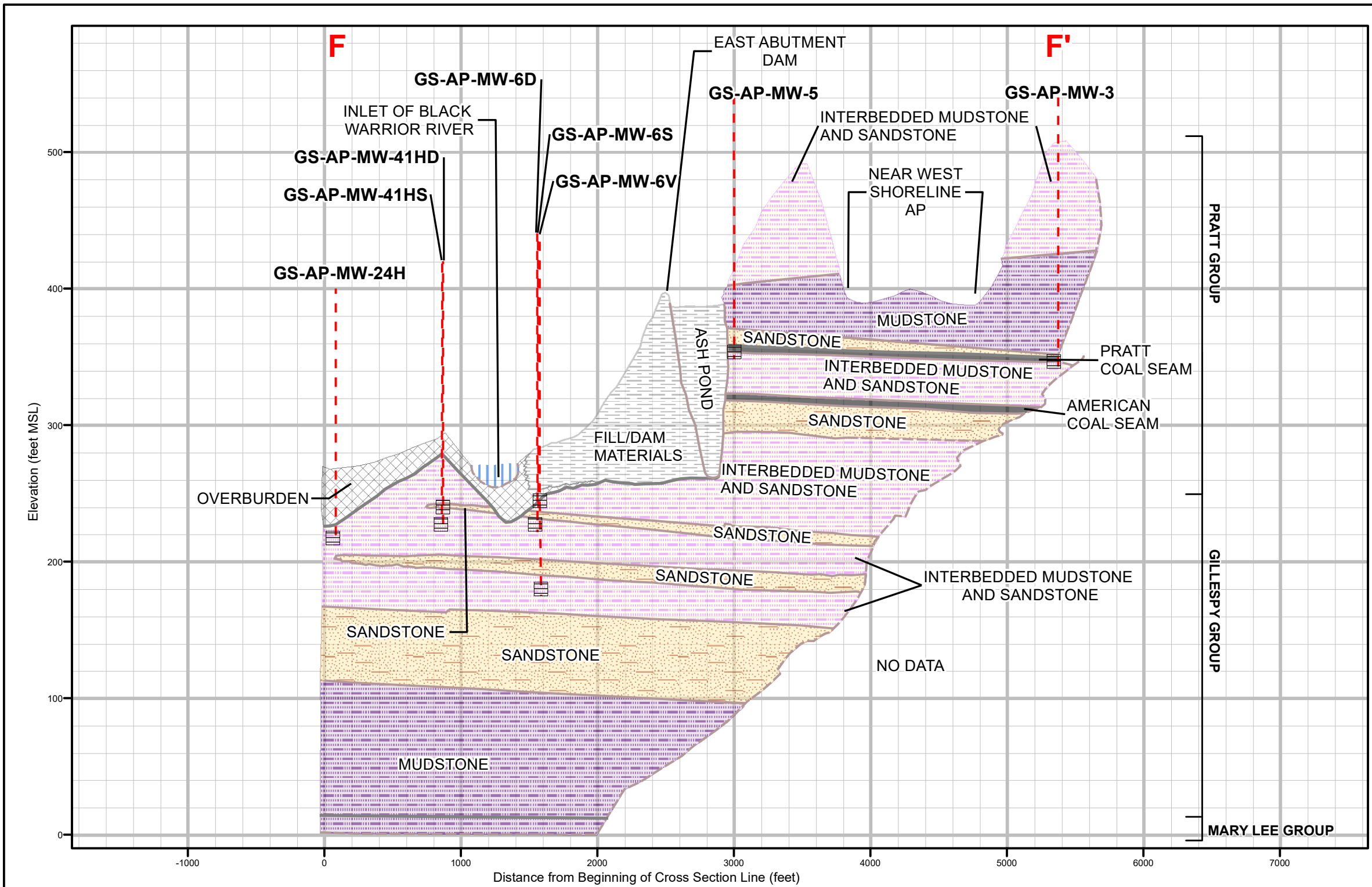
DRAWN BY
JEM

CHECKED BY
GBD

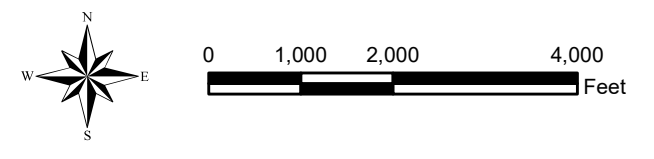
DRAWING TITLE
GEOLOGIC CROSS SECTION E – E'
PLANT GORGAS ASH POND

FIGURE NO
FIGURE 4E



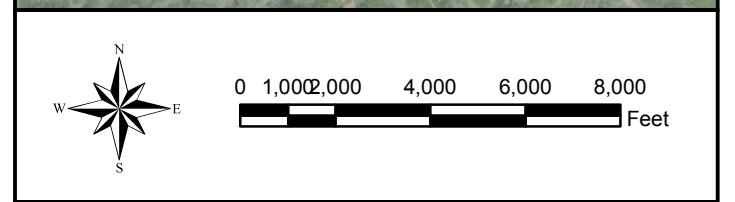
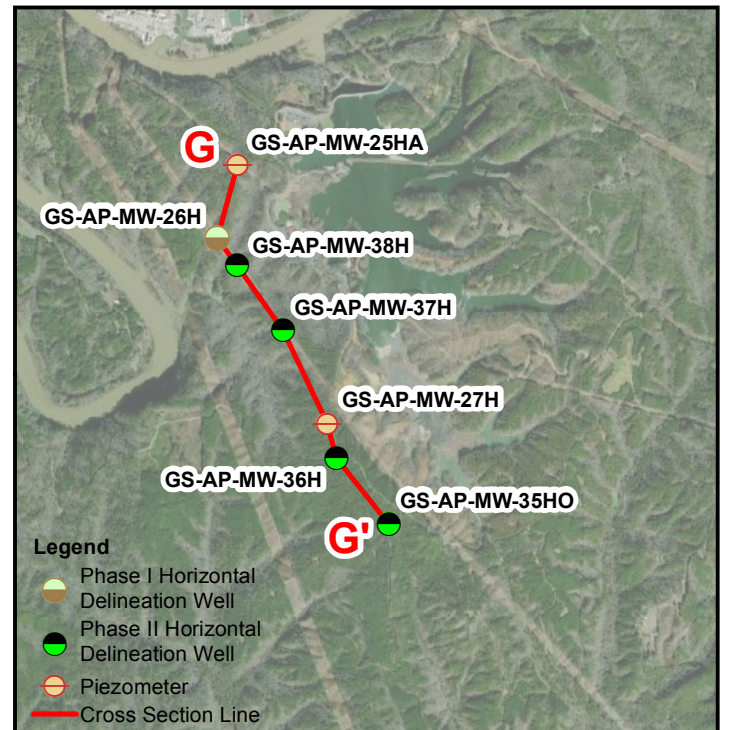
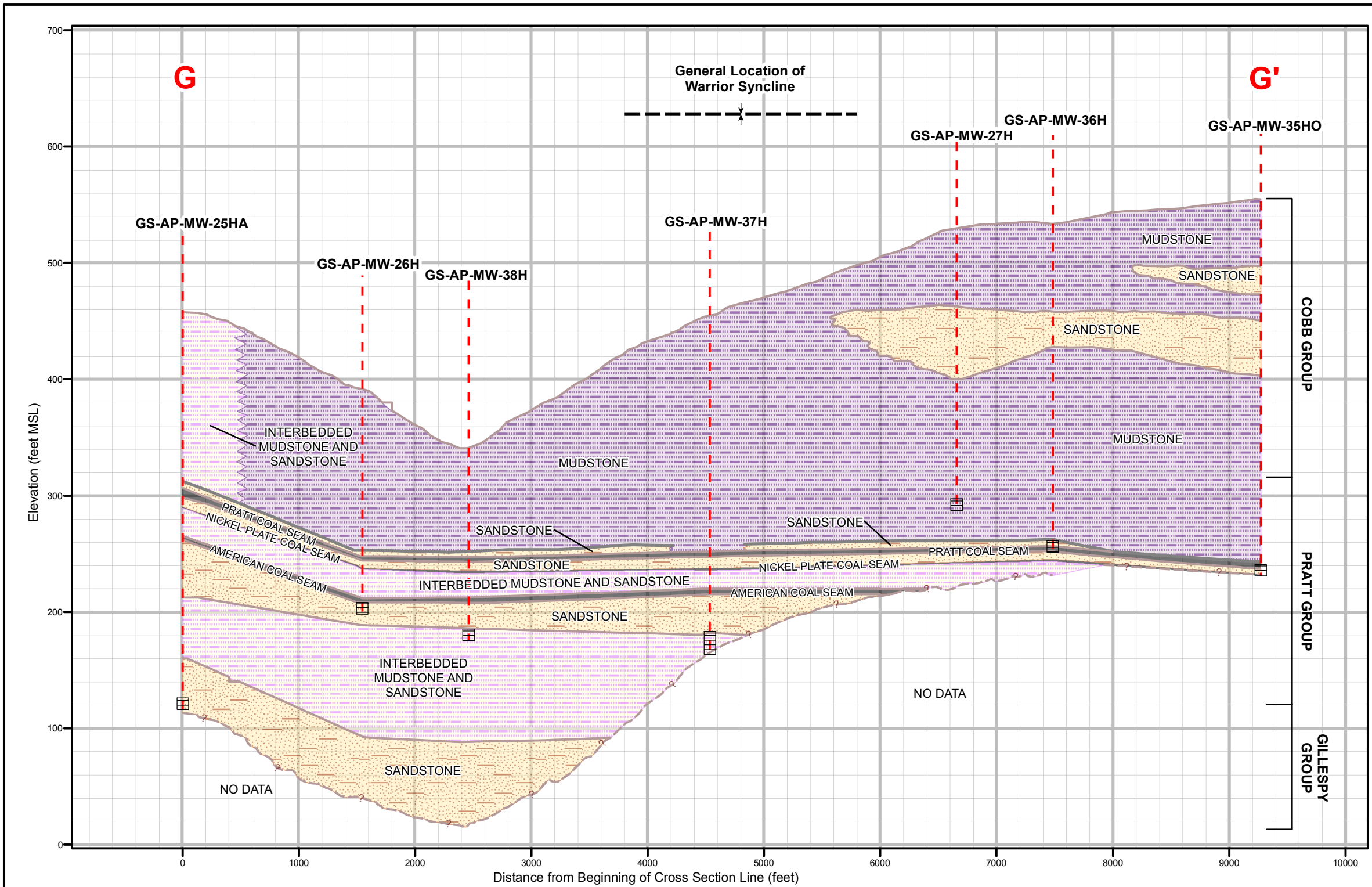


- Legend**
- Downgradient Monitoring Well
 - Phase II Horizontal Delineation Well
 - Phase I Horizontal Delineation Well
 - Piezometer
 - ⊕ Abandoned Well
 - Cross Section Line



- Notes:**
1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Elevation data are reported using feet above Mean Sea Level (MSL).
 3. Water samples were collected between March 17 and March 18, 2020.
 4. mg/L indicates milligrams per liter.
 5. ND indicates not detected above the laboratory method detection limit.
 6. Vertical exaggeration = 10x
 7. GWPS indicates Groundwater Protection Standard.
 8. Concentrations are representative only of groundwater occupying discrete fractures or coal seams and are not to be utilized to characterize mass.

| | | | | |
|---|------------------------------|-----------|--|-------------------------|
| <p>Legend</p> <ul style="list-style-type: none"> Screen Interval Monitoring Well Location Group Boundary Strata Boundary Inferred Strata Boundary Coal Fill/CCR Interbedded Mudstone and Shale Mudstone Overburden Sandstone Water | <p>Geologic Units</p> | SCALE | DRAWING TITLE | |
| | | As Shown | <p>GEOLOGIC CROSS SECTION F - F' PLANT GORGAS ASH POND</p> | |
| | | DATE | | |
| | | 9/29/2020 | MDM | <p>FIGURE 4F</p> |
| DRAWN BY | GBD | | | |
| CHECKED BY | MDM | | | |



Legend

| | |
|--|--------------------------|
| | Screen Interval |
| | Monitoring Well Location |
| | Group Boundary |
| | Strata Boundary |
| | Inferred Strata Boundary |
| | Syncline |

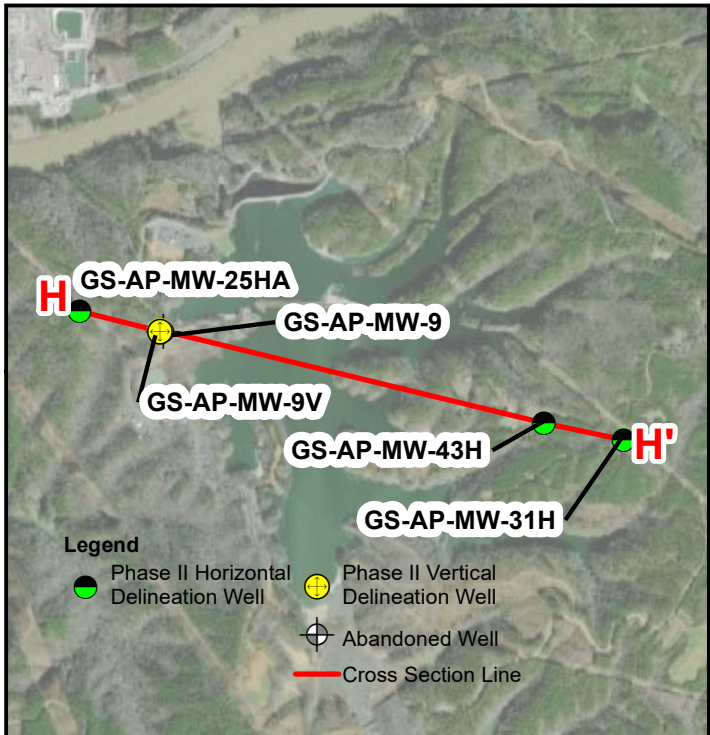
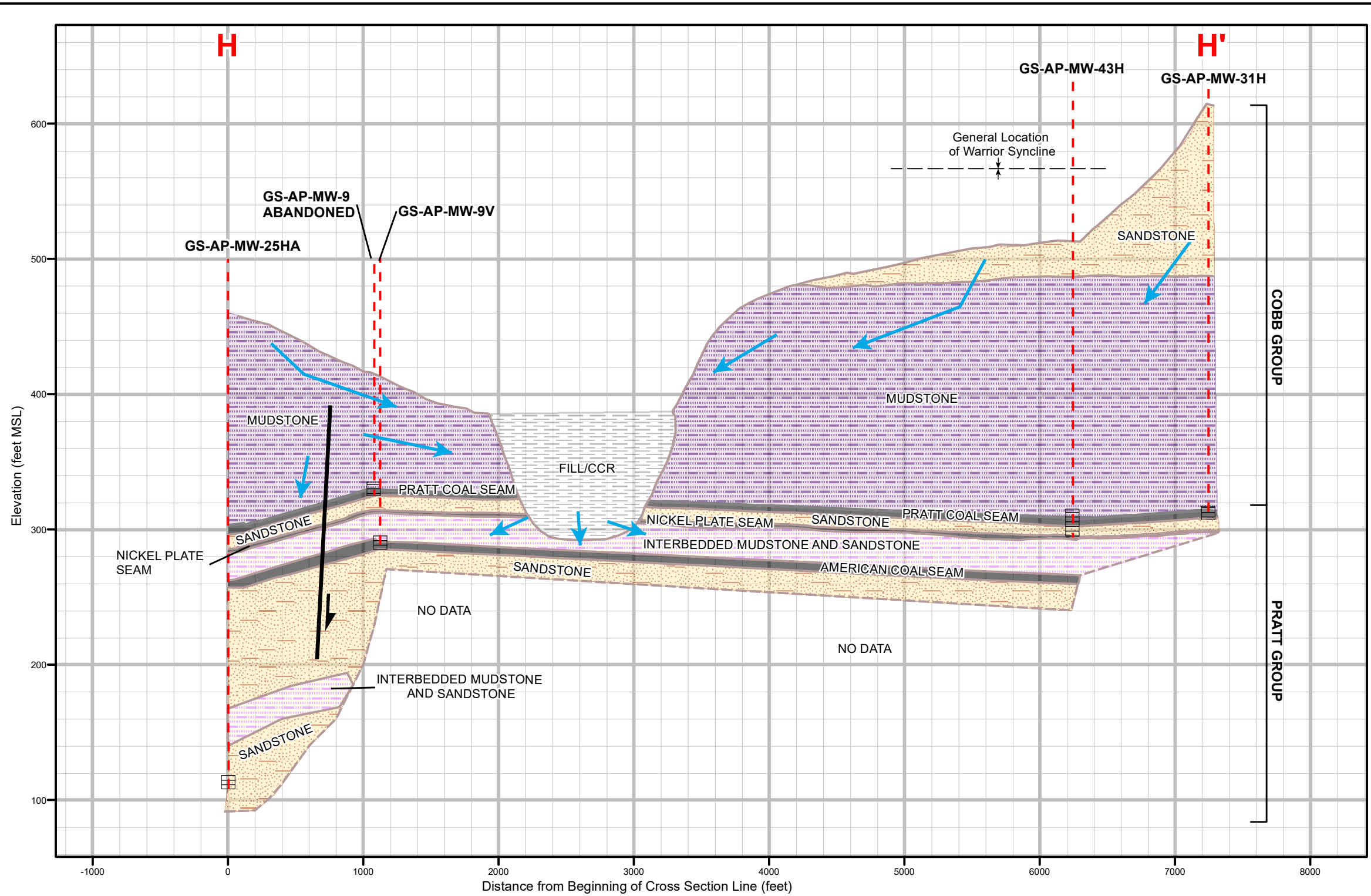
Geologic Units

| | |
|--|------------------------------------|
| | Mudstone |
| | Interbedded Mudstone and Sandstone |
| | Sandstone |
| | Channel Sandstone |
| | Coal |

Notes: 1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Elevation data are reported using feet above Mean Sea Level (MSL).
 3. Vertical exaggeration = 10x.

| | |
|------------|-----------|
| SCALE | As Shown |
| DATE | 9/22/2020 |
| DRAWN BY | KWR |
| CHECKED BY | GBD |

| | |
|--|------------------|
| DRAWING TITLE | |
| GEOLOGIC CROSS SECTION G - G' PLANT GORGAS ASH POND | |
| FIGURE NO | FIGURE 4G |
| Southern Company | |



- Legend**
- Phase II Horizontal Delineation Well
 - Phase II Vertical Delineation Well
 - ⊕ Abandoned Well
 - Cross Section Line

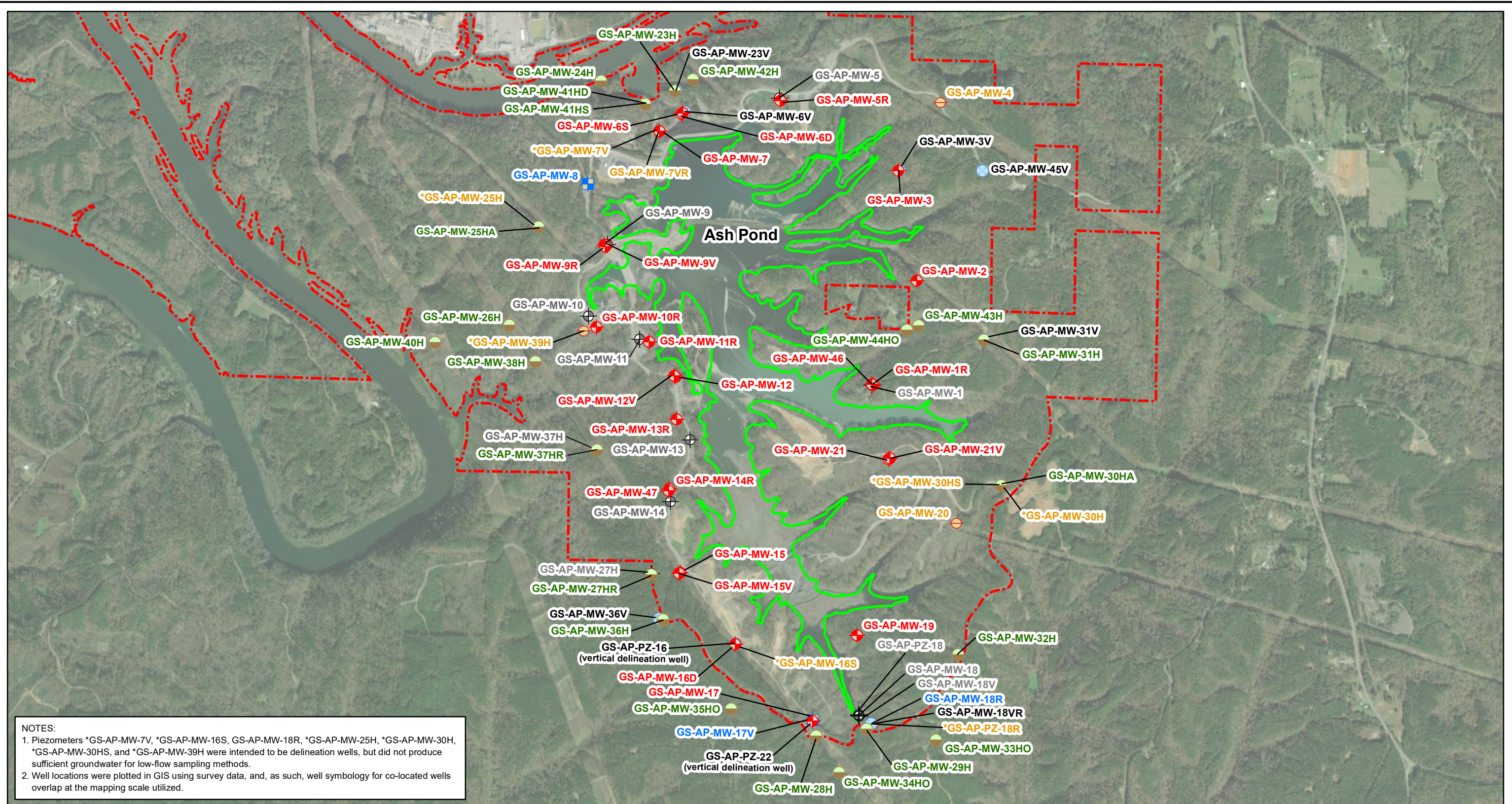


- Notes:**
1. Stratigraphic layers were correlated using a combination of boring data and gamma logs.
 2. Elevation data are reported using feet above Mean Sea Level (MSL).

| Legend | | |
|--------|------------------------------------|--|
| | Screen Interval | |
| | Monitoring Well Location | |
| | Groundwater Flow Direction | |
| | Group Boundary | |
| | Strata Boundary | |
| | Inferred Strata Boundary | |
| | Fault | |
| | Syncline | |
| | Coal | |
| | Fill/CCR | |
| | Interbedded Mudstone and Sandstone | |
| | Mudstone | |
| | Sandstone | |

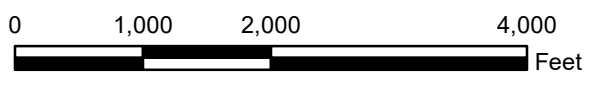
| Geologic Units | |
|----------------|-------------|
| | COBB GROUP |
| | PRATT GROUP |

| | | |
|------------|-----------|------------------|
| SCALE | As Shown | DRAWING TITLE |
| DATE | 9/21/2020 | |
| DRAWN BY | MDM | |
| CHECKED BY | GBD | FIGURE NO |
| | | FIGURE 4H |
| | | Southern Company |



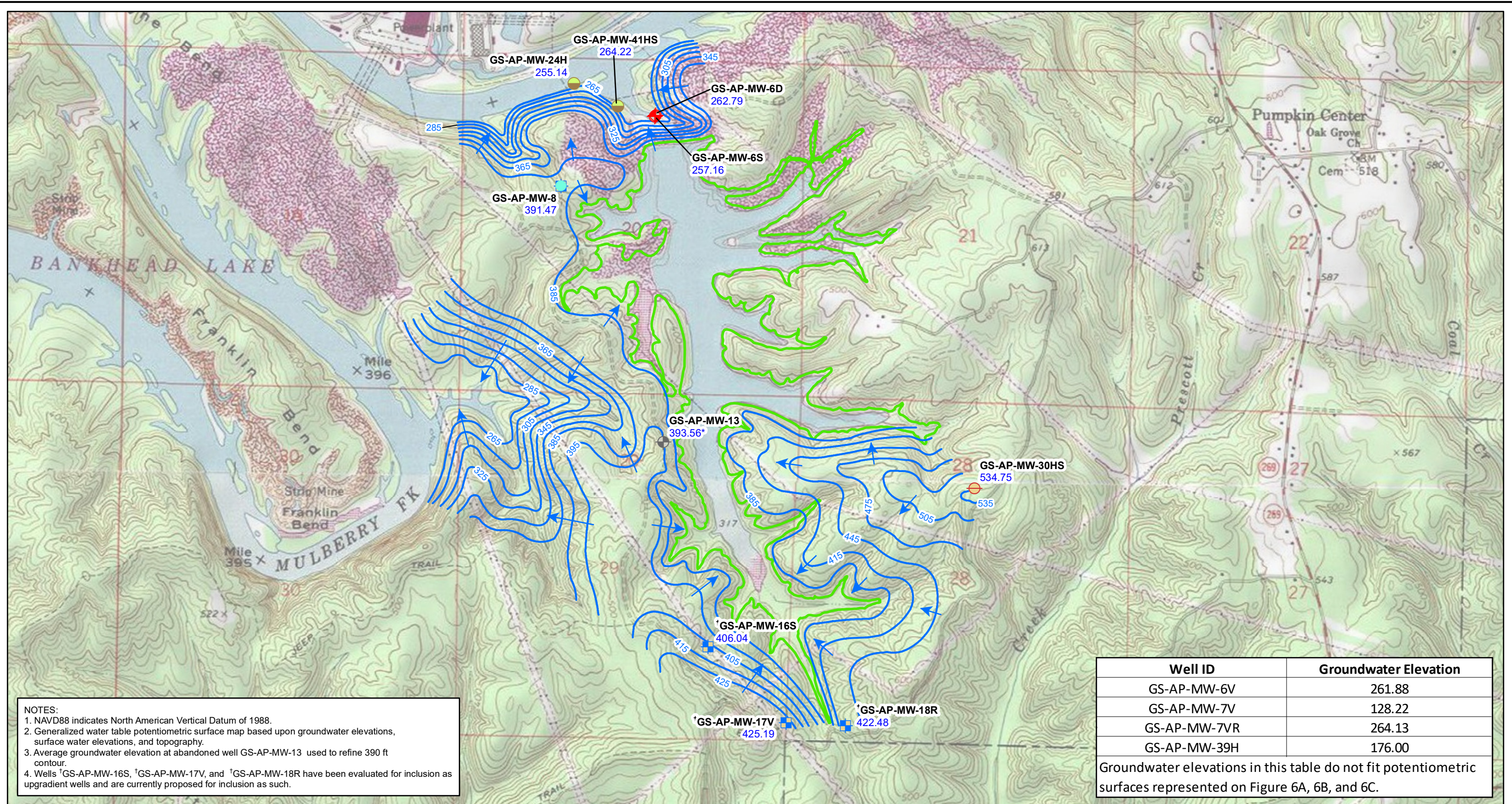
NOTES:
 1. Piezometers *GS-AP-MW-7V, *GS-AP-MW-16S, GS-AP-MW-18R, *GS-AP-MW-25H, *GS-AP-MW-30H, *GS-AP-MW-30HS, and *GS-AP-MW-39H were intended to be delineation wells, but did not produce sufficient groundwater for low-flow sampling methods.
 2. Well locations were plotted in GIS using survey data, and, as such, well symbology for co-located wells overlap at the mapping scale utilized.

| Legend | |
|--------|---|
| | Downgradient Monitoring Well |
| | Upgradient Monitoring Well |
| | Phase I Horizontal Delineation Well |
| | Phase I Vertical Delineation Well |
| | Piezometer |
| | Abandoned Well |
| | Ash Pond Boundary |
| | Property Boundary (Approximate) |
| | GS-AP-MW-2 Downgradient Monitoring Well ID |
| | GS-AP-MW-8 Upgradient Monitoring Well ID |
| | GS-AP-MW-23H Horizontal Delineation Well ID |
| | GS-AP-MW-6V Vertical Delineation Well ID |
| | GS-AP-MW-4 Piezometer ID |
| | GS-AP-MW-9 Abandoned Well ID |



| | |
|------------|-----------|
| SCALE | 1:18000 |
| DATE | 7/28/2022 |
| DRAWN BY | KAR |
| CHECKED BY | GBD |

| | |
|---|-----------------|
| DRAWING TITLE | |
| MONITORING WELL LOCATION MAP PLANT GORGAS ASH POND | |
| FIGURE NO | FIGURE 5 |
| Southern Company | |



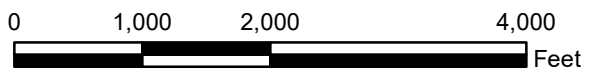
NOTES:
 1. NAVD88 indicates North American Vertical Datum of 1988.
 2. Generalized water table potentiometric surface map based upon groundwater elevations, surface water elevations, and topography.
 3. Average groundwater elevation at abandoned well GS-AP-MW-13 used to refine 390 ft contour.
 4. Wells †GS-AP-MW-16S, †GS-AP-MW-17V, and †GS-AP-MW-18R have been evaluated for inclusion as upgradient wells and are currently proposed for inclusion as such.

| Well ID | Groundwater Elevation |
|--------------|-----------------------|
| GS-AP-MW-6V | 261.88 |
| GS-AP-MW-7V | 128.22 |
| GS-AP-MW-7VR | 264.13 |
| GS-AP-MW-39H | 176.00 |

Groundwater elevations in this table do not fit potentiometric surfaces represented on Figure 6A, 6B, and 6C.

Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Piezometer
- Abandoned Well
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- GS-AP-MW-8** Well ID
391.47 Groundwater Elevation

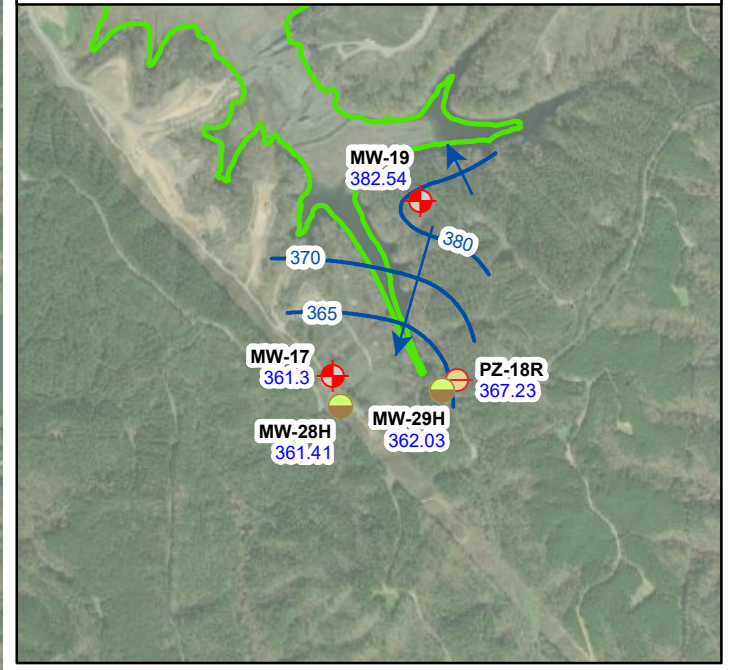


| | |
|------------|-----------|
| SCALE | 1:18000 |
| DATE | 5/17/2022 |
| DRAWN BY | KAR |
| CHECKED BY | GBD |

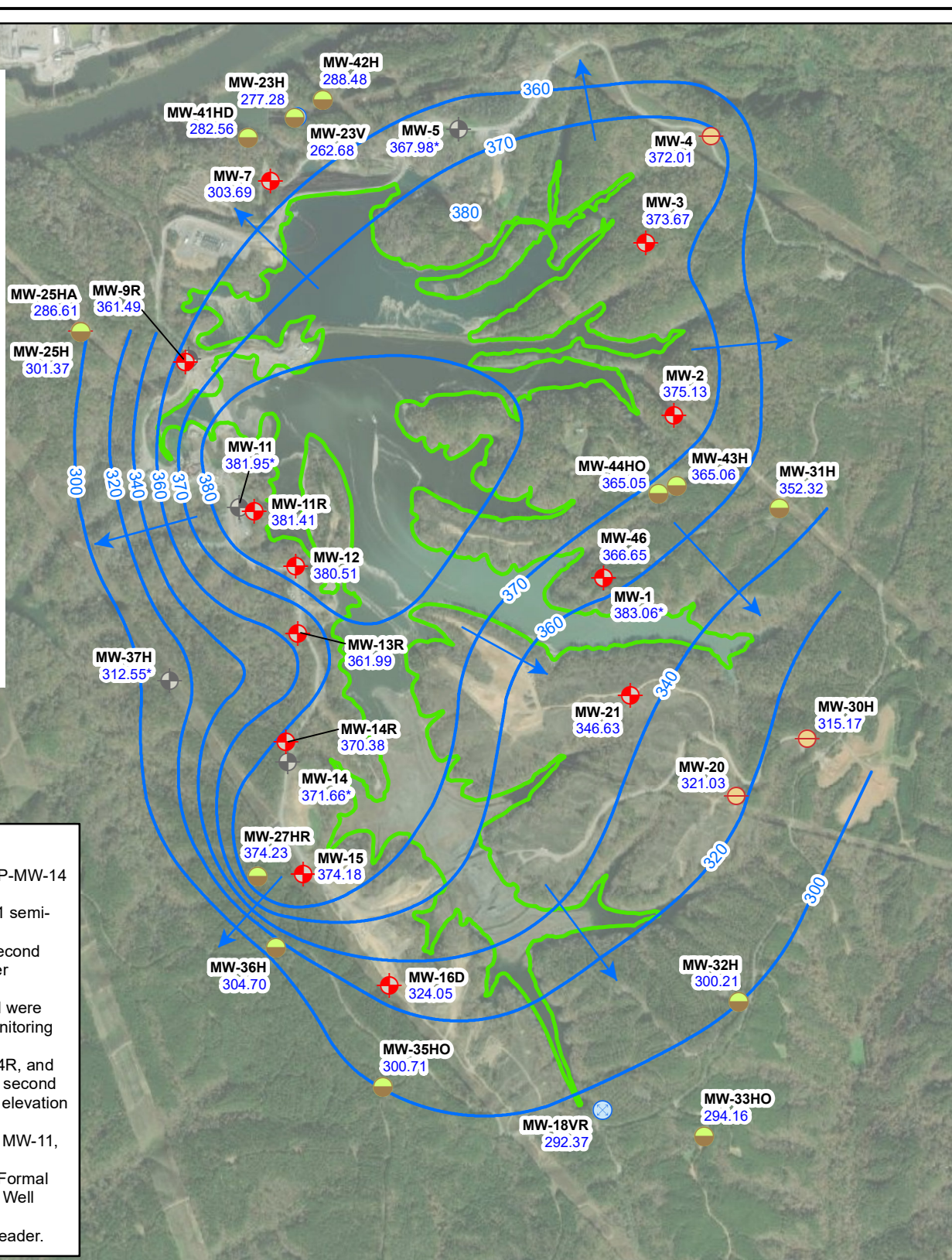
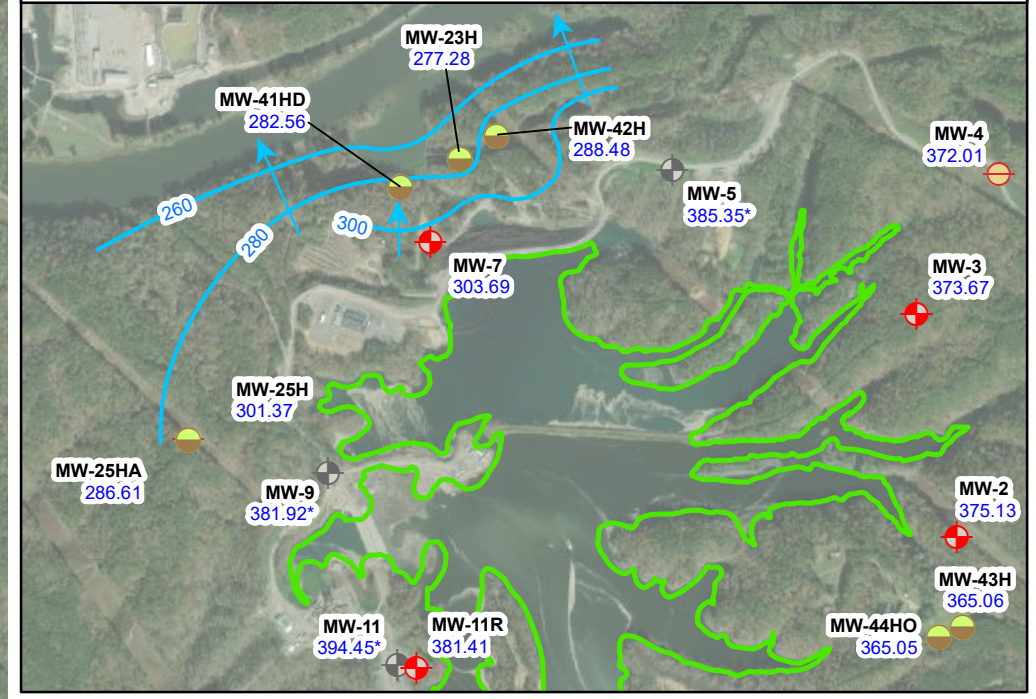
DRAWING TITLE
**POTENTIOMETRIC SURFACE CONTOUR MAP
 (UPPER) WATER TABLE AQUIFER
 FEBRUARY 7, 2022
 PLANT GORGAS ASH POND**

FIGURE NO
FIGURE 6A

GENERALIZED POTENTIOMETRIC SURFACE CONTOUR MAP - UPPER PRATT TO COBB COAL GROUP



GENERALIZED POTENTIOMETRIC SURFACE CONTOUR MAP - BASE OF PRATT TO GILLESPIE TRANSITION (NORTH OF DAM)



- NOTES:**
1. NAVD88 indicates North American Vertical Datum of 1988.
 2. GS-AP-MW-5, GS-AP-MW-9, GS-AP-MW-10, GS-AP-MW-11, and GS-AP-MW-14 were abandoned prior to the March 2020 event.
 3. Well GS-AP-MW-37H was abandoned between the first and second 2021 semi-annual monitoring events.
 4. Wells GS-AP-MW-1 and GS-AP-MW-18 were abandoned between the second 2021 semi-annual monitoring event on July 26, 2021 and the groundwater elevation measuring event on December 16, 2021.
 5. Wells GS-AP-MW-11R and GS-AP-MW-27HR are replacement wells and were installed at the time of sampling during the second 2021 semi-annual monitoring event on July 26, 2021.
 6. Wells GS-AP-MW-9R, GS-AP-MW-11R, GS-AP-MW-13R, GS-AP-MW-14R, and GS-AP-MW-18VR are replacement wells and were installed between the second 2021 semi-annual sampling event on July 26, 2021 and the groundwater elevation measuring event on December 16, 2021.
 7. *Average groundwater elevations were used for abandoned wells MW-5, MW-11, MW-14, and MW-37H to help depict groundwater flow.
 8. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well Location Map.
 9. Potentiometric contour lines were generalized for depiction and ease of reader.

| Well ID | Groundwater Elevation |
|--------------|-----------------------|
| GS-AP-MW-6V | 261.88 |
| GS-AP-MW-7V | 128.22 |
| GS-AP-MW-7VR | 264.13 |
| GS-AP-MW-39H | 176.00 |

Groundwater elevations in this table do not fit potentiometric surfaces represented on Figure 6A, 6B, and 6C.

Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Abandoned Well
- Potentiometric Surface Contour (ft NAVD88) (Upper Pratt to Cobb Coal Group)
- Approximate Groundwater Flow Direction (Upper Pratt to Cobb Coal Group)
- Potentiometric Surface Contour (ft NAVD88) (Base of Pratt to Gillespie Aquifer Transition)
- Approximate Groundwater Flow Direction (Base of Pratt to Gillespie Aquifer Transition)
- Ash Pond Boundary
- Well ID
- Groundwater Elevation

SCALE: 1:18000
 DATE: 5/17/2022
 DRAWN BY: KAR
 CHECKED BY: GBD

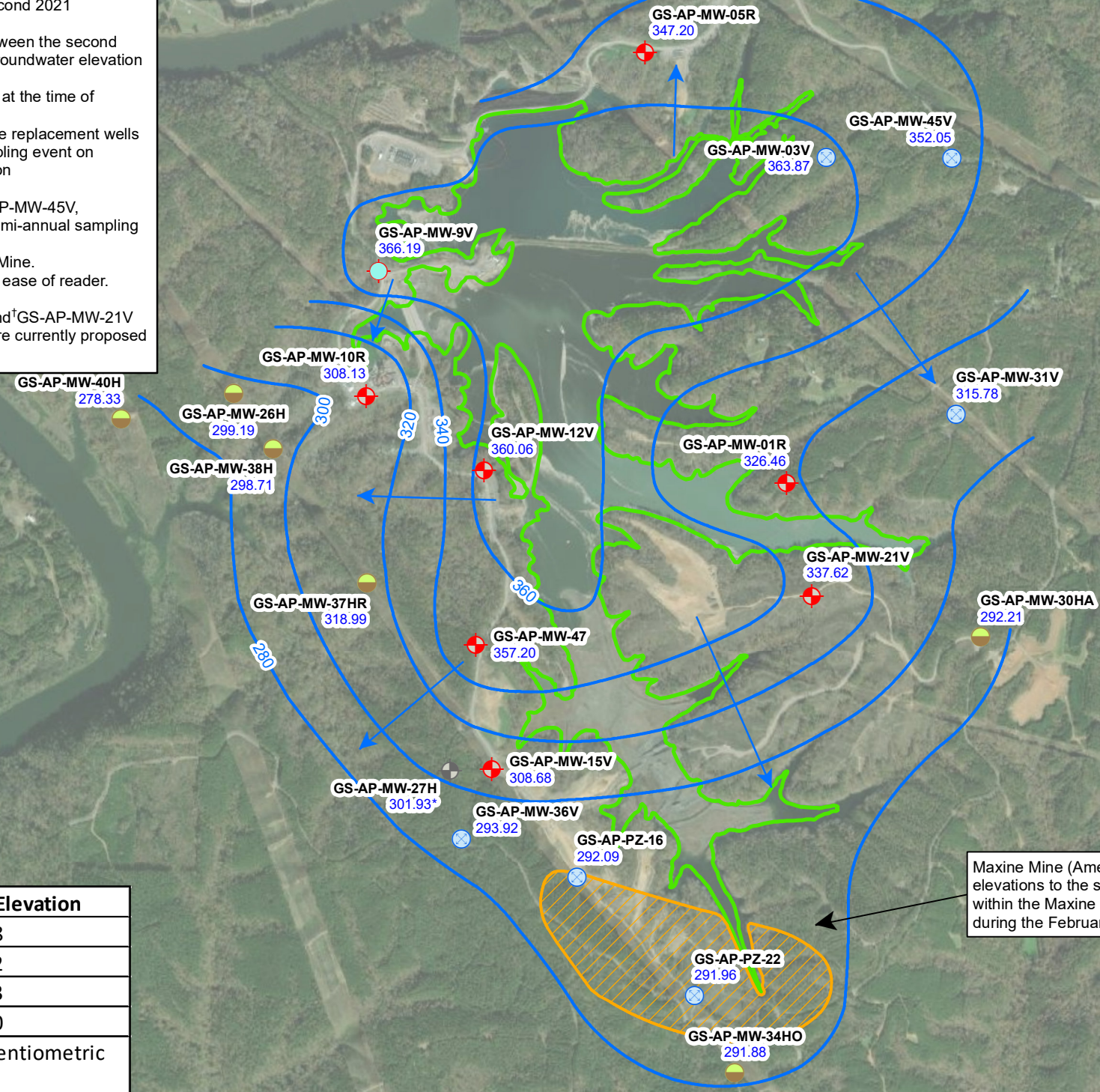
DRAWING TITLE: POTENTIOMETRIC SURFACE CONTOUR MAP PRATT AQUIFER FEBRUARY 7, 2022 PLANT GORGAS ASH POND

FIGURE NO: **FIGURE 6B**

Southern Company

NOTES:

1. NAVD88 indicates North American Vertical Datum of 1988.
2. Well GS-AP-MW-27H was abandoned between the first and second 2021 semi-annual monitoring events.
3. Wells GS-AP-MW-18V and GS-AP-PZ-18 were abandoned between the second 2021 semi-annual monitoring event on July 26, 2021 and the groundwater elevation measuring event on December 16, 2021.
4. Well GS-AP-MW-37HR is a replacement well and was installed at the time of sampling for the second 2021 sampling event.
5. Wells GS-AP-MW-1R, GS-AP-MW-5R, and GS-AP-MW-10R are replacement wells and were installed between the second 2021 semi-annual sampling event on July 26, 2021 and the groundwater elevation measuring event on December 16, 2021.
6. Wells GS-AP-MW-3V, GS-AP-MW-31V, GS-AP-MW-36V, GS-AP-MW-45V, and GS-AP-MW-47 were installed between the second 2021 semi-annual sampling event on July 26, 2021 and December 16, 2021.
7. GS-AP-PZ-16, -18, and -22 monitor water levels in the Maxine Mine.
8. Potentiometric contour lines were generalized for depiction and ease of reader.
9. * indicates average groundwater elevation.
10. Wells †GS-AP-MW-9V, †GS-AP-MW-12V, †GS-AP-MW-15V and †GS-AP-MW-21V have been evaluated for inclusion as downgradient wells and are currently proposed for inclusion as such.



Maxine Mine (American Coal Seam) influences groundwater elevations to the south and east of the ash pond. Groundwater within the Maxine Mine was approximately 292.0 ft NAVD88 during the February 2022 groundwater elevation measuring event.

| Well ID | Groundwater Elevation |
|--------------|-----------------------|
| GS-AP-MW-6V | 261.88 |
| GS-AP-MW-7V | 128.22 |
| GS-AP-MW-7VR | 264.13 |
| GS-AP-MW-39H | 176.00 |

Groundwater elevations in this table do not fit potentiometric surfaces represented on Figure 6A, 6B, and 6C.


Legend

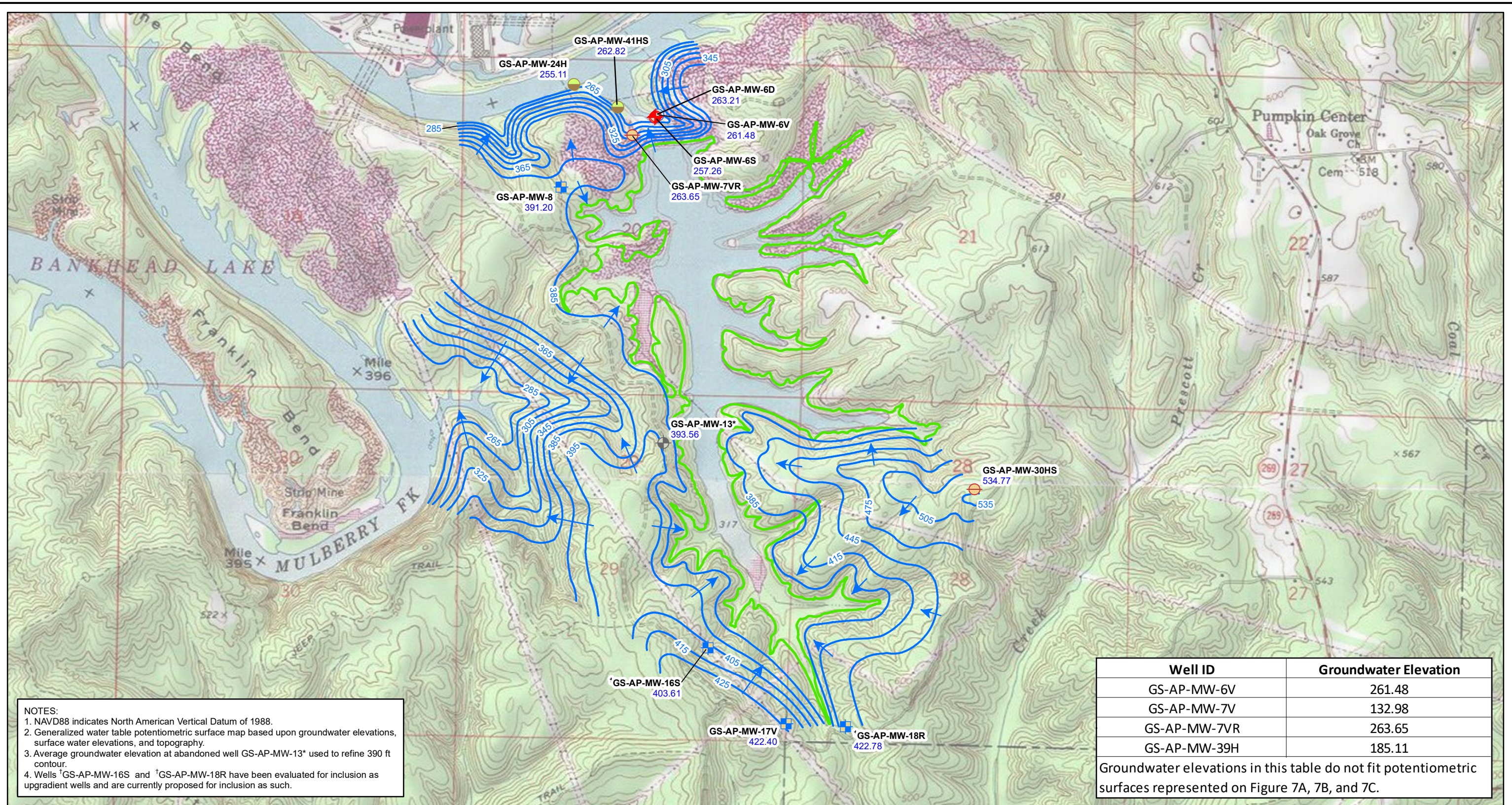
- Downgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Abandoned Well
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Maxine Mine
- Ash Pond Boundary

GS-AP-MW-9V Well ID
366.19 Groundwater Elevation



| | | |
|------------|-----------|--|
| SCALE | 1:18000 | DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP AMERICAN AQUIFER FEBRUARY 7, 2022 PLANT GORGAS ASH POND |
| DATE | 5/26/2022 | |
| DRAWN BY | KAR | FIGURE NO FIGURE 6C |
| CHECKED BY | GBD | |





NOTES:
 1. NAVD88 indicates North American Vertical Datum of 1988.
 2. Generalized water table potentiometric surface map based upon groundwater elevations, surface water elevations, and topography.
 3. Average groundwater elevation at abandoned well GS-AP-MW-13* used to refine 390 ft contour.
 4. Wells †GS-AP-MW-16S and †GS-AP-MW-18R have been evaluated for inclusion as upgradient wells and are currently proposed for inclusion as such.

| Well ID | Groundwater Elevation |
|--------------|-----------------------|
| GS-AP-MW-6V | 261.48 |
| GS-AP-MW-7V | 132.98 |
| GS-AP-MW-7VR | 263.65 |
| GS-AP-MW-39H | 185.11 |

Groundwater elevations in this table do not fit potentiometric surfaces represented on Figure 7A, 7B, and 7C.

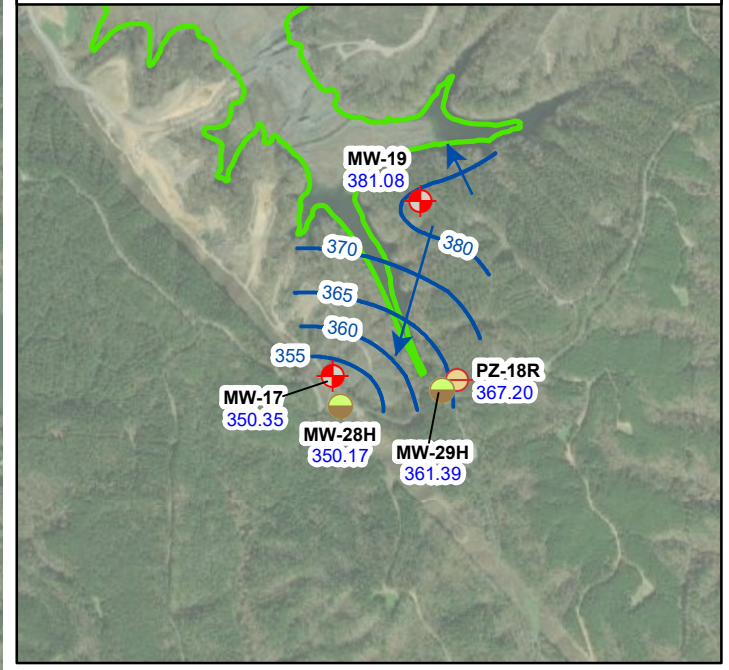
Legend

- Downgradient Monitoring Well
- Vertical Delineation Well
- Potentiometric Surface Contour (ft NAVD88)
- Upgradient Monitoring Well
- Piezometer
- Approximate Groundwater Flow Direction
- Horizontal Delineation Well
- Abandoned Well
- Ash Pond Boundary

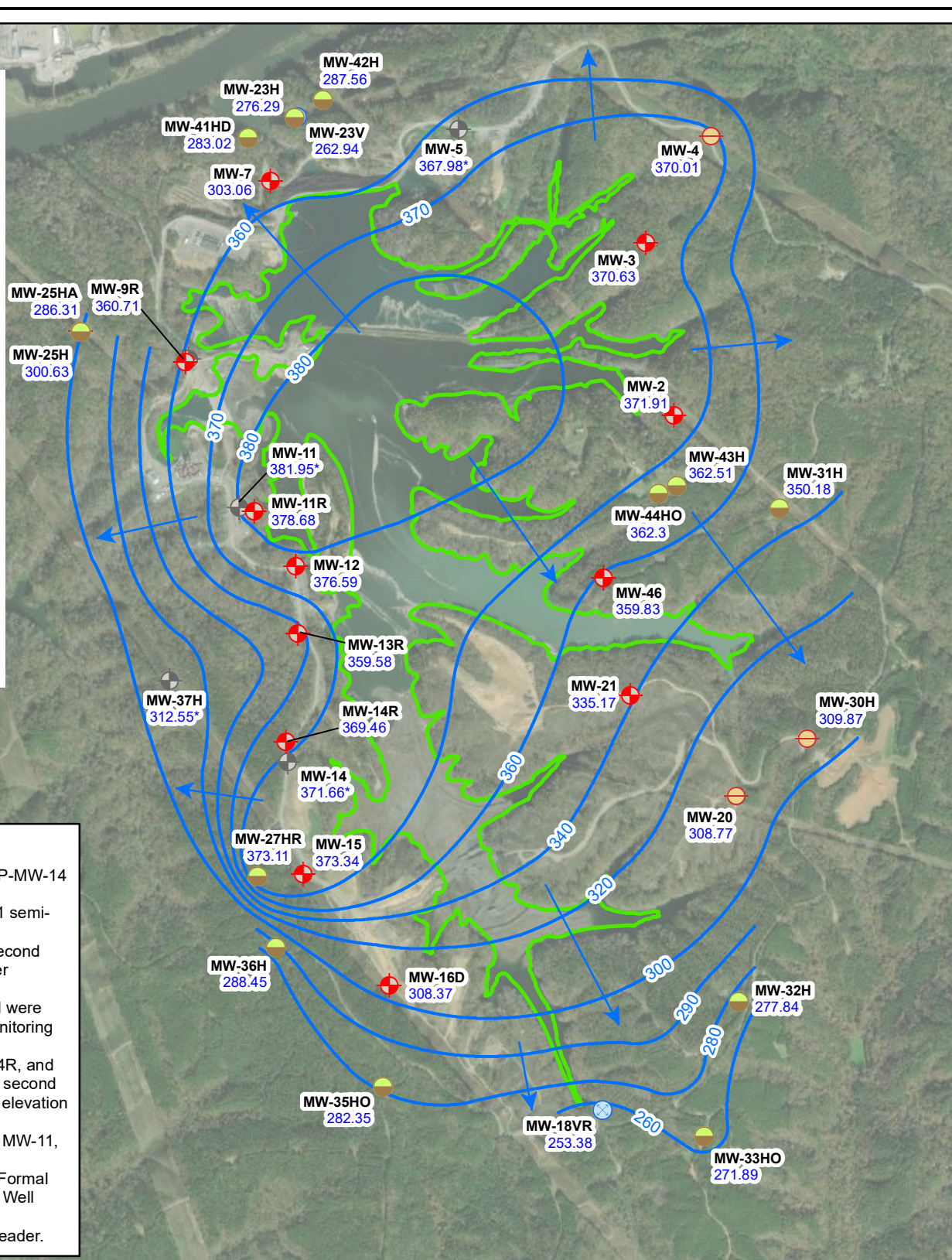
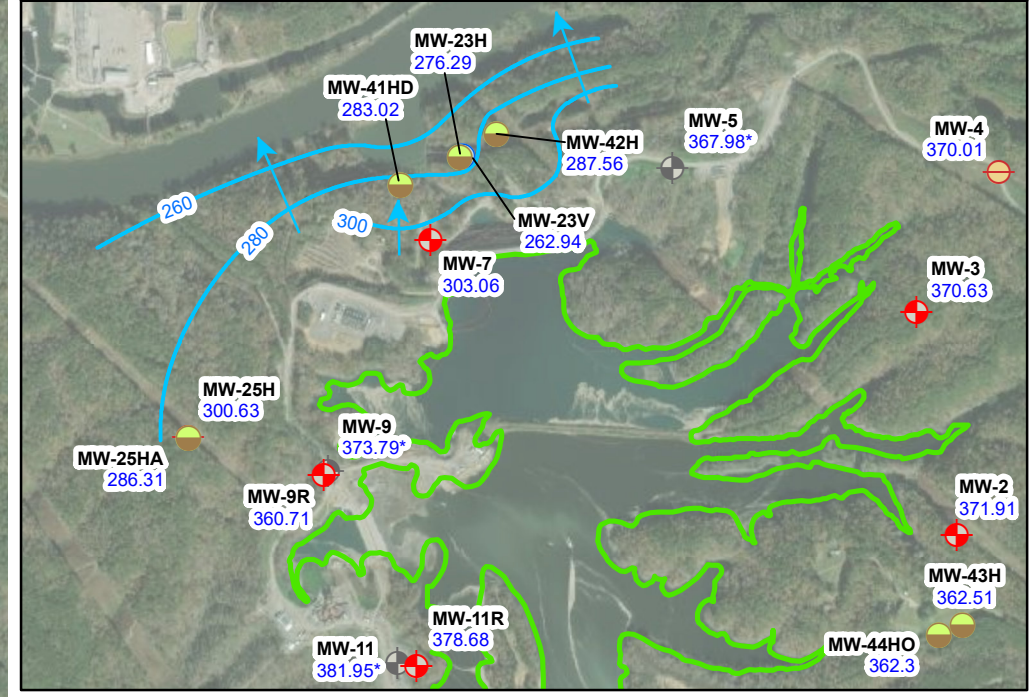
GS-AP-MW-8 Well ID
391.20 Groundwater Elevation

| | | |
|------------|-----------|--|
| SCALE | 1:18000 | DRAWING TITLE |
| DATE | 5/17/2022 | POTENTIOMETRIC SURFACE CONTOUR MAP (UPPER) WATER TABLE AQUIFER |
| DRAWN BY | KAR | JULY 18, 2022 |
| CHECKED BY | GBD | PLANT GORGAS ASH POND |
| FIGURE NO | | FIGURE 7A |
| | | Southern Company |

GENERALIZED POTENTIOMETRIC SURFACE CONTOUR MAP - UPPER PRATT TO COBB COAL GROUP



GENERALIZED POTENTIOMETRIC SURFACE CONTOUR MAP - BASE OF PRATT TO GILLESPIY TRANSITION (NORTH OF DAM)



- NOTES:**
1. NAVD88 indicates North American Vertical Datum of 1988.
 2. GS-AP-MW-5, GS-AP-MW-9, GS-AP-MW-10, GS-AP-MW-11, and GS-AP-MW-14 were abandoned prior to the March 2020 event.
 3. Well GS-AP-MW-37H was abandoned between the first and second 2021 semi-annual monitoring events.
 4. Wells GS-AP-MW-1 and GS-AP-MW-18 were abandoned between the second 2021 semi-annual monitoring event on July 26, 2021 and the groundwater elevation measuring event on December 16, 2021.
 5. Wells GS-AP-MW-11R and GS-AP-MW-27HR are replacement wells and were installed at the time of sampling during the second 2021 semi-annual monitoring event on July 26, 2021.
 6. Wells GS-AP-MW-9R, GS-AP-MW-11R, GS-AP-MW-13R, GS-AP-MW-14R, and GS-AP-MW-18VR are replacement wells and were installed between the second 2021 semi-annual sampling event on July 26, 2021 and the groundwater elevation measuring event on December 16, 2021.
 7. *Average groundwater elevations were used for abandoned wells MW-5, MW-11, MW-14, and MW-37H to help depict groundwater flow.
 8. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well Location Map.
 9. Potentiometric contour lines were generalized for depiction and ease of reader.

| Well ID | Groundwater Elevation |
|--------------|-----------------------|
| GS-AP-MW-6V | 261.48 |
| GS-AP-MW-7V | 132.98 |
| GS-AP-MW-7VR | 263.65 |
| GS-AP-MW-39H | 185.11 |

Groundwater elevations in this table do not fit potentiometric surfaces represented on Figure 7A, 7B, and 7C.

Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Abandoned Well
- Potentiometric Surface Contour (ft NAVD88) (Upper Pratt to Cobb Coal Group)
- Approximate Groundwater Flow Direction (Upper Pratt to Cobb Coal Group)
- Potentiometric Surface Contour (ft NAVD88) (Base of Pratt to Gillespie Aquifer Transition)
- Approximate Groundwater Flow Direction (Base of Pratt to Gillespie Aquifer Transition)
- Ash Pond Boundary
- Well ID
- Groundwater Elevation

SCALE: 1:18000
 DATE: 5/17/2022
 DRAWN BY: KAR
 CHECKED BY: GBD

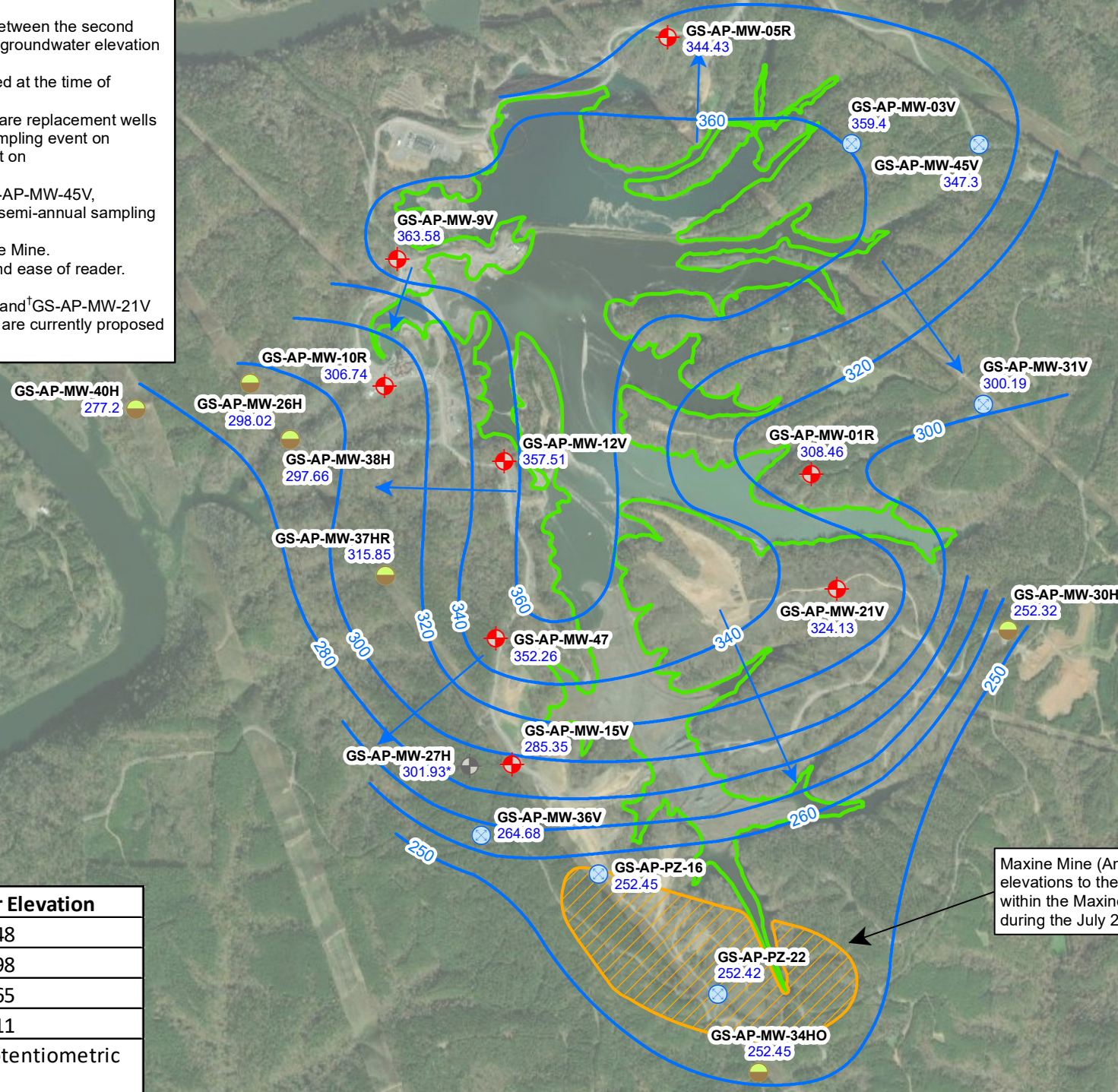
DRAWING TITLE: POTENTIOMETRIC SURFACE CONTOUR MAP PRATT AQUIFER JULY 18, 2022 PLANT GORGAS ASH POND

FIGURE NO: **FIGURE 7B**

Southern Company

NOTES:

1. NAVD88 indicates North American Vertical Datum of 1988.
2. Well GS-AP-MW-27H was abandoned between the first and second 2021 semi-annual monitoring events.
3. Wells GS-AP-MW-18V and GS-AP-PZ-18 were abandoned between the second 2021 semi-annual monitoring event on July 26, 2021 and the groundwater elevation measuring event on December 16, 2021.
4. Well GS-AP-MW-37HR is a replacement well and was installed at the time of sampling for the second 2021 sampling event.
5. Wells GS-AP-MW-1R, GS-AP-MW-5R, and GS-AP-MW-10R are replacement wells and were installed between the second 2021 semi-annual sampling event on July 26, 2021 and the groundwater elevation measuring event on December 16, 2021.
6. Wells GS-AP-MW-3V, GS-AP-MW-31V, GS-AP-MW-36V, GS-AP-MW-45V, and GS-AP-MW-47 were installed between the second 2021 semi-annual sampling event on July 26, 2021 and December 16, 2021.
7. GS-AP-PZ-16, -18, and -22 monitor water levels in the Maxine Mine.
8. Potentiometric contour lines were generalized for depiction and ease of reader.
9. * indicates average groundwater elevation.
10. Wells †GS-AP-MW-9V, †GS-AP-MW-12V, †GS-AP-MW-15V and †GS-AP-MW-21V have been evaluated for inclusion as downgradient wells and are currently proposed for inclusion as such.



Maxine Mine (American Coal Seam) influences groundwater elevations to the south and east of the ash pond. Groundwater within the Maxine Mine was approximately 252.0 ft NAVD88 during the July 2022 groundwater elevation measuring event.

| Well ID | Groundwater Elevation |
|--------------|-----------------------|
| GS-AP-MW-6V | 261.48 |
| GS-AP-MW-7V | 132.98 |
| GS-AP-MW-7VR | 263.65 |
| GS-AP-MW-39H | 185.11 |

Groundwater elevations in this table do not fit potentiometric surfaces represented on Figure 7A, 7B, and 7C.

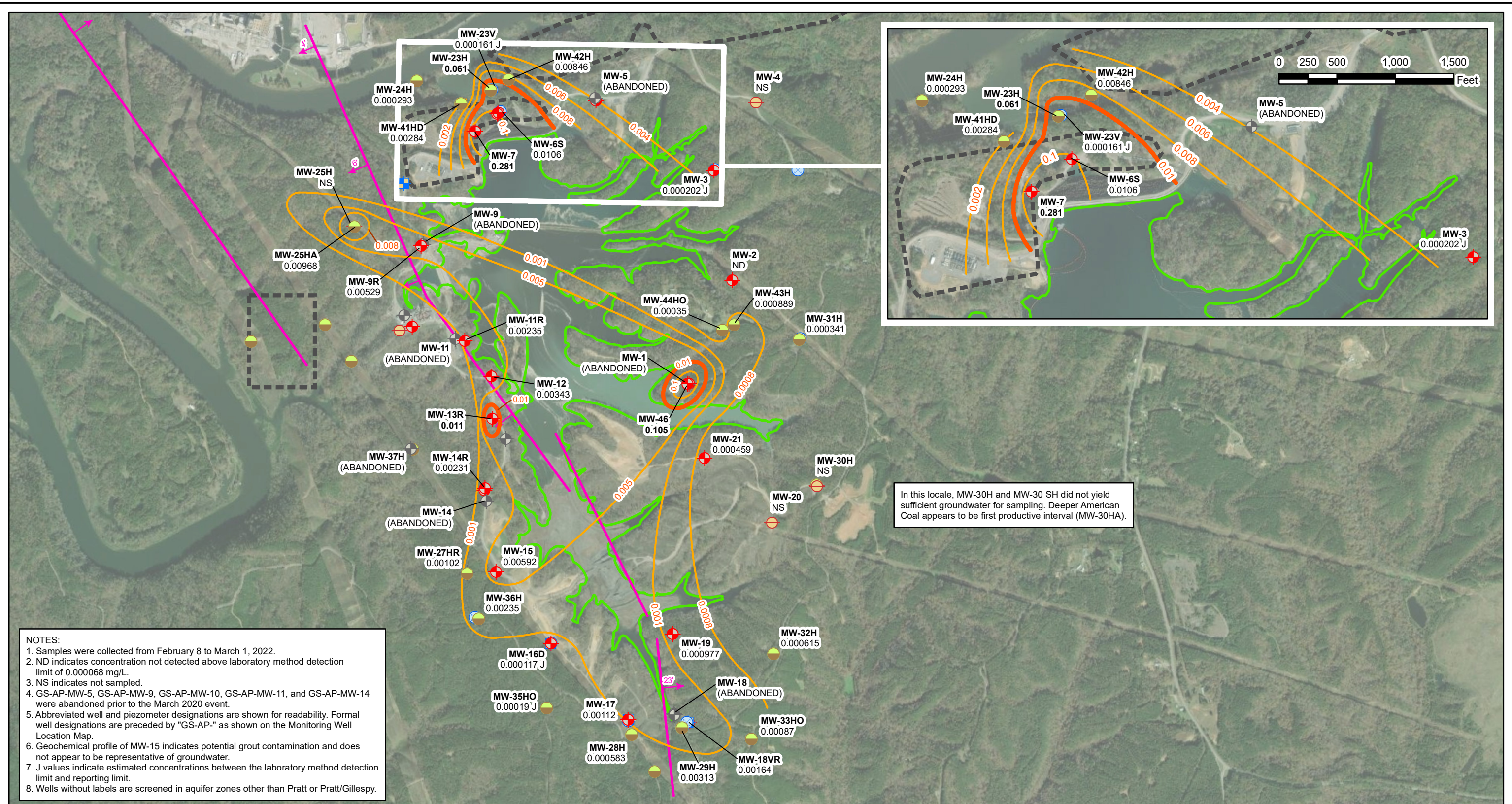
Legend

- Downgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Abandoned Well
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Maxine Mine
- Ash Pond Boundary

GS-AP-MW-9V Well ID
363.58 Groundwater Elevation



| | | |
|------------|-----------|---|
| SCALE | 1:18000 | DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP AMERICAN AQUIFER |
| DATE | 5/26/2022 | |
| DRAWN BY | KAR | JULY 18, 2022 |
| CHECKED BY | GBD | PLANT GORGAS ASH POND |
| FIGURE NO | | FIGURE 7C |
| | | Southern Company |

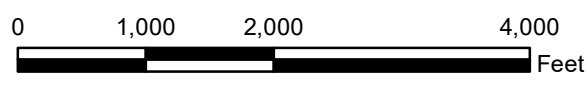


NOTES:

1. Samples were collected from February 8 to March 1, 2022.
2. ND indicates concentration not detected above laboratory method detection limit of 0.000068 mg/L.
3. NS indicates not sampled.
4. GS-AP-MW-5, GS-AP-MW-9, GS-AP-MW-10, GS-AP-MW-11, and GS-AP-MW-14 were abandoned prior to the March 2020 event.
5. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well Location Map.
6. Geochemical profile of MW-15 indicates potential grout contamination and does not appear to be representative of groundwater.
7. J values indicate estimated concentrations between the laboratory method detection limit and reporting limit.
8. Wells without labels are screened in aquifer zones other than Pratt or Pratt/Gillespie.

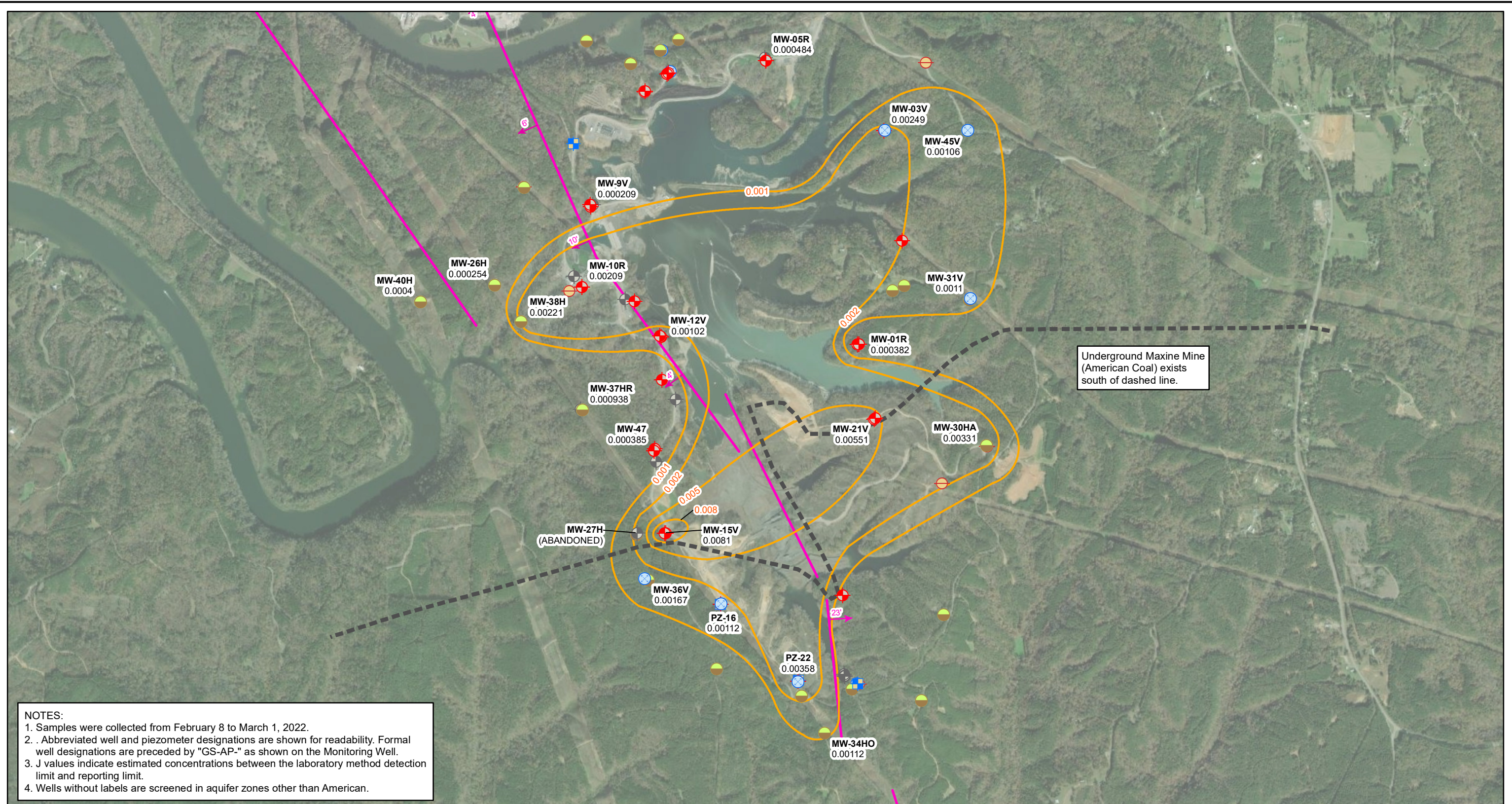
- Legend**
- Downgradient Monitoring Well
 - Upgradient Monitoring Well
 - Horizontal Delineation Well
 - Vertical Delineation Well
 - Piezometer
 - Abandoned Well
 - Arsenic GWPS Contour (0.01 mg/L)
 - Arsenic Isoconcentration Contour (mg/L)
 - Fault
 - Dip Direction of Fault with Offset (ft)
 - Pratt Mines
 - Ash Pond Boundary

MW-36H Well ID
0.00235 Arsenic Concentration (mg/L)



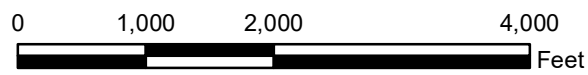
| | |
|------------|-----------|
| SCALE | 1:18000 |
| DATE | 6/16/2022 |
| DRAWN BY | KAR |
| CHECKED BY | GBD |

| | |
|--|------------------|
| DRAWING TITLE | |
| ARSENIC ISOCONCENTRATION MAP PRATT AQUIFER FEBRUARY TO MARCH 2022 PLANT GORGAS ASH POND | |
| FIGURE NO | FIGURE 8A |
| Southern Company | |



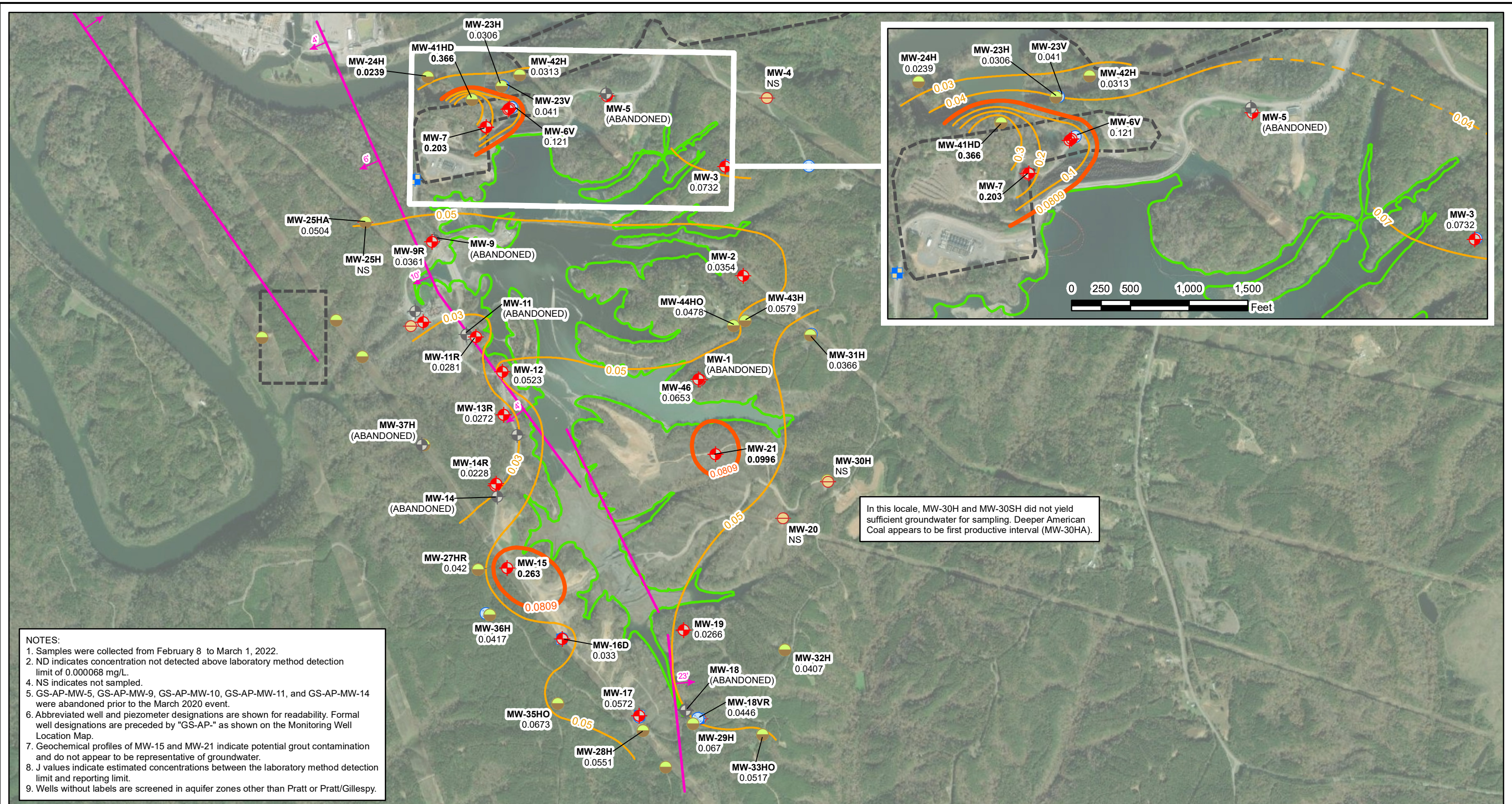
NOTES:
 1. Samples were collected from February 8 to March 1, 2022.
 2. . Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well.
 3. J values indicate estimated concentrations between the laboratory method detection limit and reporting limit.
 4. Wells without labels are screened in aquifer zones other than American.

| Legend | |
|--------|--|
| | Downgradient Monitoring Well |
| | Upgradient Monitoring Well |
| | Horizontal Delineation Well |
| | Vertical Delineation Well |
| | Piezometer |
| | Abandoned Well |
| | Approximate Underground Maxine Mine Boundary |
| | Arsenic Isoconcentration Contour (mg/L) |
| | Fault |
| | Dip Direction of Fault with Offset (ft) |
| | MW-12V Well ID |
| | 0.00102 Arsenic Concentration (mg/L) |



| | |
|------------|-----------|
| SCALE | 1:18000 |
| DATE | 6/16/2022 |
| DRAWN BY | KAR |
| CHECKED BY | GBD |

| | |
|---|------------------|
| DRAWING TITLE | |
| ARSENIC ISOCONCENTRATION MAP AMERICAN AQUIFER FEBRUARY TO MARCH 2022 PLANT GORGAS ASH POND | |
| FIGURE NO | FIGURE 8B |
| Southern Company | |

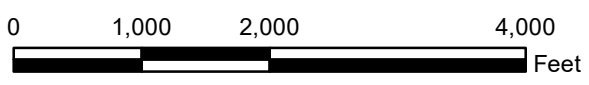


NOTES:

1. Samples were collected from February 8 to March 1, 2022.
2. ND indicates concentration not detected above laboratory method detection limit of 0.000068 mg/L.
3. NS indicates not sampled.
4. NS indicates not sampled.
5. GS-AP-MW-5, GS-AP-MW-9, GS-AP-MW-10, GS-AP-MW-11, and GS-AP-MW-14 were abandoned prior to the March 2020 event.
6. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well Location Map.
7. Geochemical profiles of MW-15 and MW-21 indicate potential grout contamination and do not appear to be representative of groundwater.
8. J values indicate estimated concentrations between the laboratory method detection limit and reporting limit.
9. Wells without labels are screened in aquifer zones other than Pratt or Pratt/Gillespie.

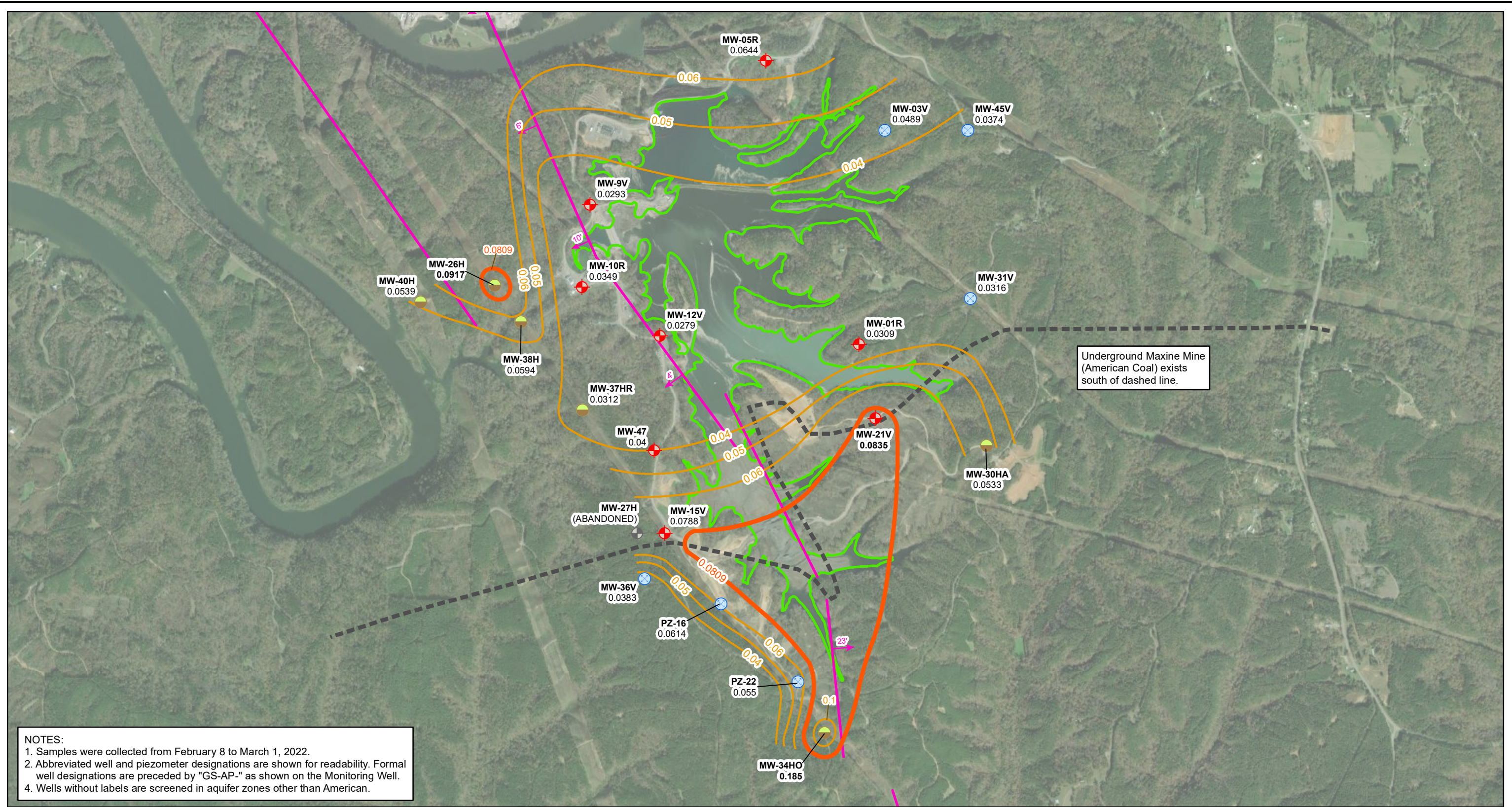
- Legend**
- Downgradient Monitoring Well
 - Upgradient Monitoring Well
 - Horizontal Delineation Well
 - Vertical Delineation Well
 - Piezometer
 - Abandoned Well
 - Lithium GWPS Background Contour (0.0809 mg/L)
 - Lithium Isoconcentration Contour (mg/L)
 - Fault
 - Dip Direction of Fault with Offset (ft)
 - Pratt Mines
 - Ash Pond Boundary

MW-19 Well ID
0.0266 Lithium Concentration (mg/L)



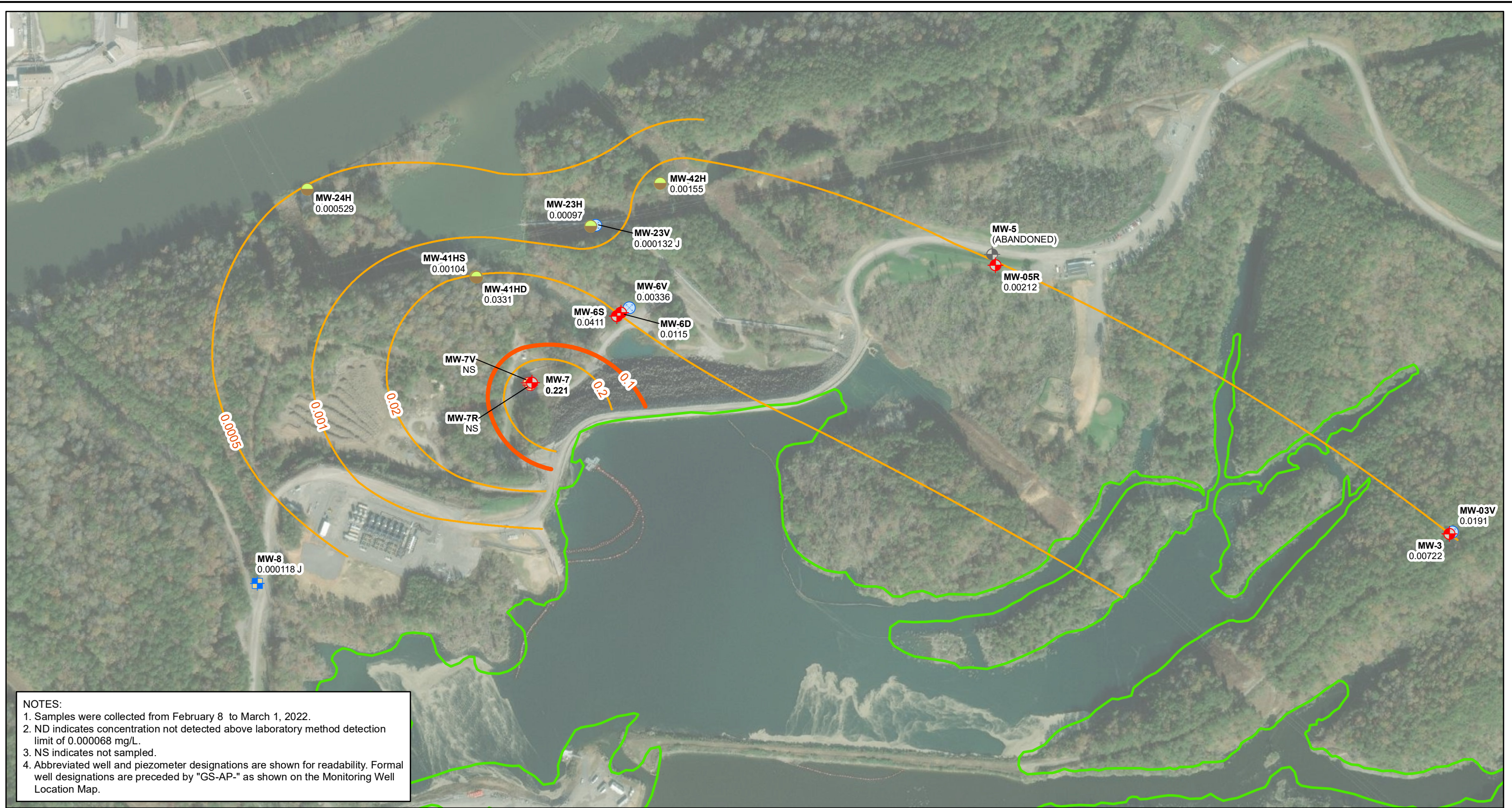
In this locale, MW-30H and MW-30SH did not yield sufficient groundwater for sampling. Deeper American Coal appears to be first productive interval (MW-30HA).

| | | | |
|------------|-----------|------------------|--|
| SCALE | 1:18000 | DRAWING TITLE | LITHIUM ISOCONCENTRATION MAP PRATT AQUIFER FEBRUARY TO MARCH 2022 PLANT GORGAS ASH POND |
| DATE | 6/20/2022 | | |
| DRAWN BY | KAR | FIGURE NO | FIGURE 9A |
| CHECKED BY | GBD | Southern Company | |



NOTES:
 1. Samples were collected from February 8 to March 1, 2022.
 2. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well.
 4. Wells without labels are screened in aquifer zones other than American.

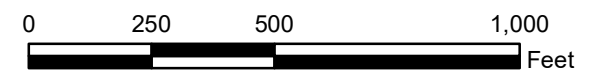
| | | | | |
|-------------------|------------|-----------|---------------|---|
| Legend | SCALE | 1:18000 | DRAWING TITLE | |
| | DATE | 6/20/2022 | | LITHIUM ISOCONCENTRATION MAP AMERICAN AQUIFER FEBRUARY TO MARCH 2022 PLANT GORGAS ASH POND |
| | DRAWN BY | KAR | FIGURE NO | FIGURE 9B |
| | CHECKED BY | GBD | | |



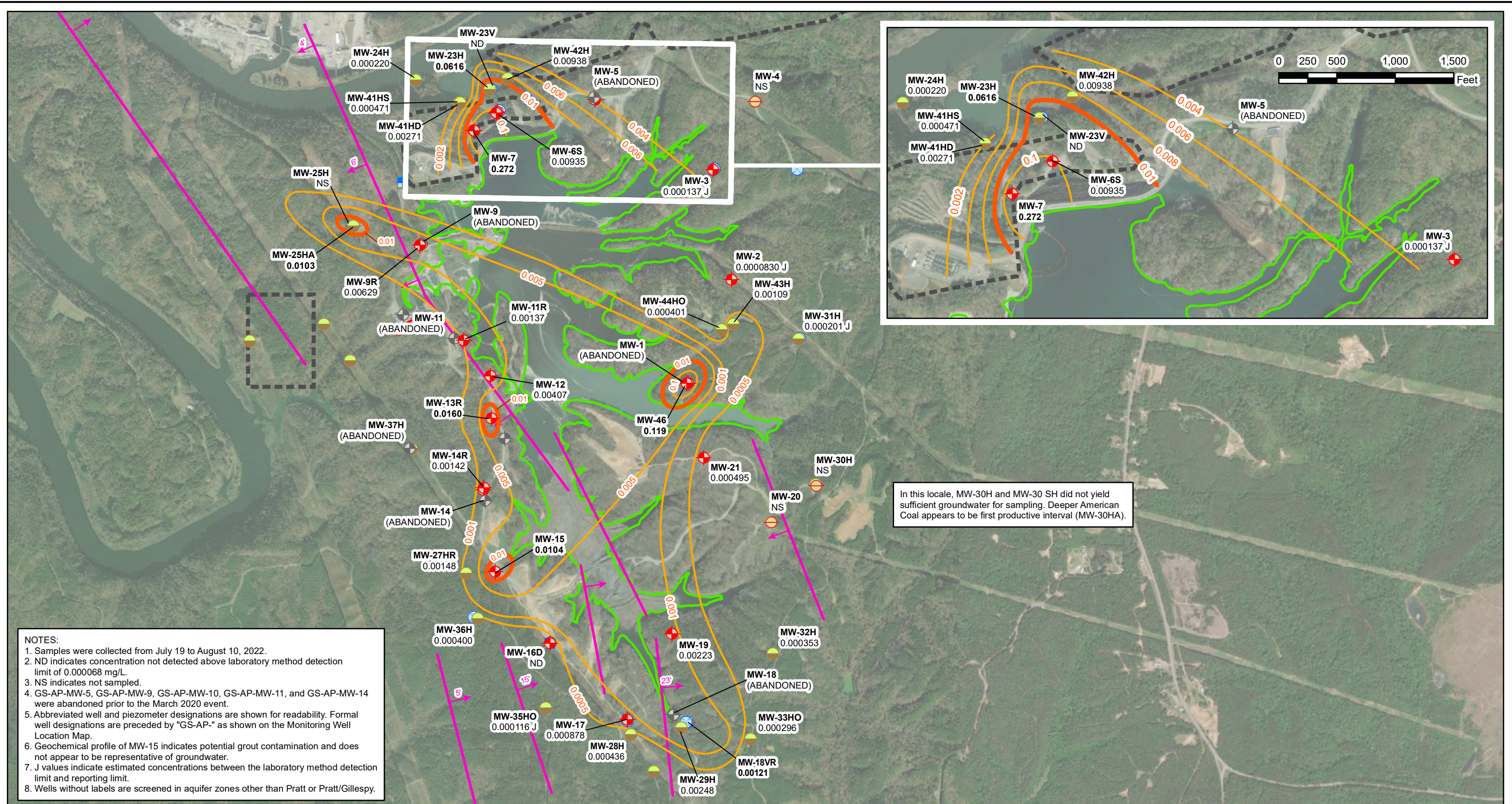
NOTES:
 1. Samples were collected from February 8 to March 1, 2022.
 2. ND indicates concentration not detected above laboratory method detection limit of 0.000068 mg/L.
 3. NS indicates not sampled.
 4. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well Location Map.

Legend

- Downgradient Monitoring Well
 - Upgradient Monitoring Well
 - Horizontal Delineation Well
 - Vertical Delineation Well
 - Piezometer
 - Abandoned Well
 - Molybdenum GWPS Contour (0.1 mg/L)
 - Molybdenum Concentration Contour (mg/L)
 - Ash Pond Boundary
- | | |
|-------------|---------------------------------|
| MW-3 | Well ID |
| 0.00722 | Molybdenum Concentration (mg/L) |



| | | | |
|------------|-----------|--|------------------|
| SCALE | 1:4695 | DRAWING TITLE | |
| DATE | 6/21/2022 | MOLYBDENUM ISOCONCENTRATION MAP FEBRUARY TO MARCH 2022 PLANT GORGAS ASH POND | |
| DRAWN BY | KAR | FIGURE NO | FIGURE 10 |
| CHECKED BY | GBD | Southern Company | |

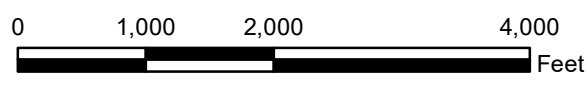


NOTES:

1. Samples were collected from July 19 to August 10, 2022.
2. ND indicates concentration not detected above laboratory method detection limit of 0.000068 mg/L.
3. NS indicates not sampled.
4. GS-AP-MW-5, GS-AP-MW-9, GS-AP-MW-10, GS-AP-MW-11, and GS-AP-MW-14 were abandoned prior to the March 2020 event.
5. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well Location Map.
6. Geochemical profile of MW-15 indicates potential grout contamination and does not appear to be representative of groundwater.
7. J values indicate estimated concentrations between the laboratory method detection limit and reporting limit.
8. Wells without labels are screened in aquifer zones other than Pratt or Pratt/Gillespy.

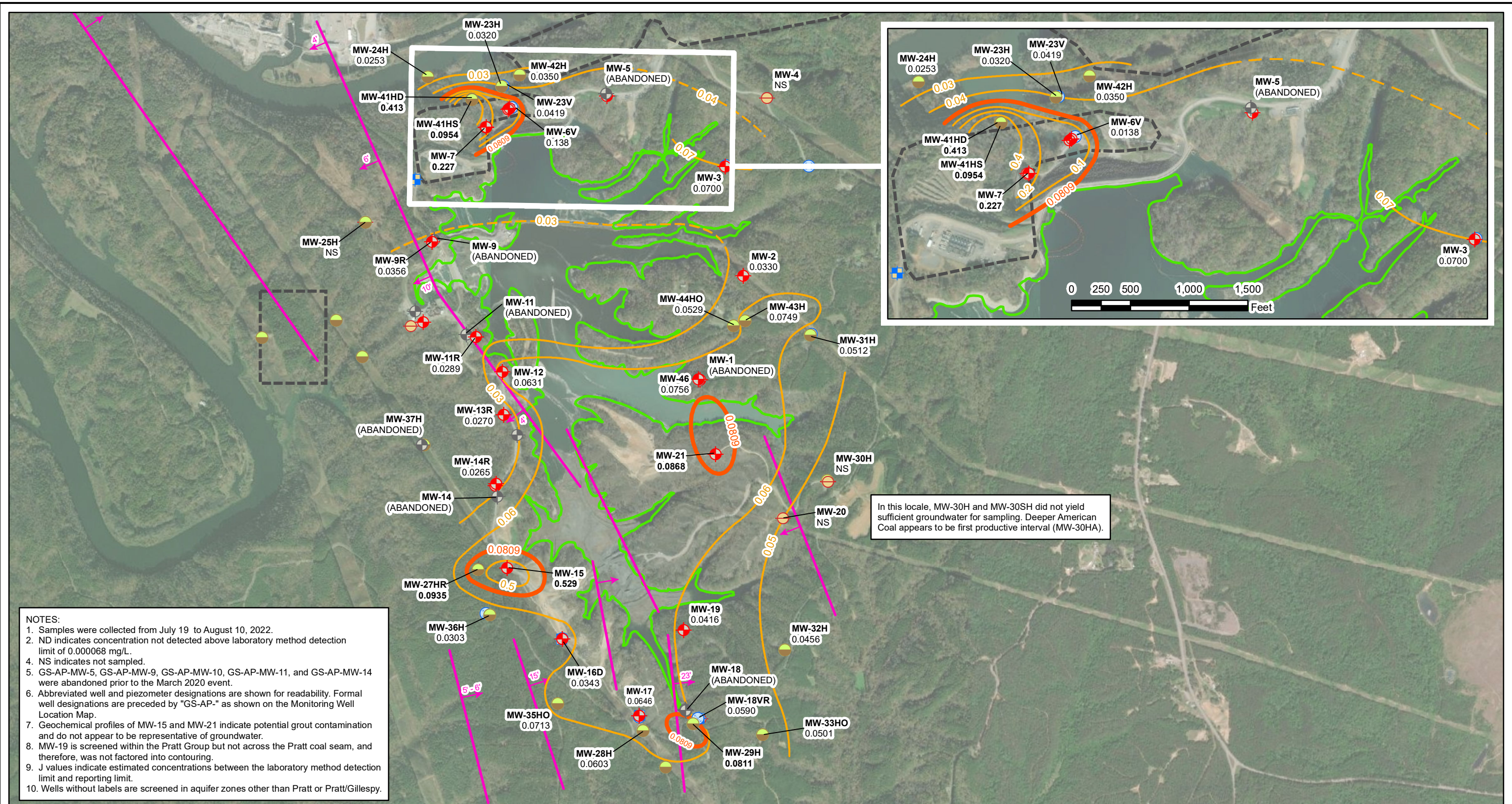
- Legend**
- Downgradient Monitoring Well
 - Upgradient Monitoring Well
 - Horizontal Delineation Well
 - Vertical Delineation Well
 - Piezometer
 - Abandoned Well
 - Arsenic GWPS Contour (0.01 mg/L)
 - Arsenic Isoconcentration Contour (mg/L)
 - Fault
 - Dip Direction of Fault with Offset (ft)
 - Pratt Mines
 - Ash Pond Boundary

MW-36H Well ID
0.000400 Arsenic Concentration (mg/L)



In this locale, MW-30H and MW-30SH did not yield sufficient groundwater for sampling. Deeper American Coal appears to be first productive interval (MW-30HA).

| | | | |
|------------|-----------|------------------|---|
| SCALE | 1:18000 | DRAWING TITLE | ARSENIC ISOCONCENTRATION MAP PRATT AQUIFER JULY TO AUGUST 2022 PLANT GORGAS ASH POND |
| DATE | 6/16/2022 | | |
| DRAWN BY | KAR | FIGURE NO | FIGURE 11A |
| CHECKED BY | GBD | Southern Company | |



- NOTES:**
1. Samples were collected from July 19 to August 10, 2022.
 2. ND indicates concentration not detected above laboratory method detection limit of 0.000068 mg/L.
 3. ND indicates concentration not detected above laboratory method detection limit of 0.000068 mg/L.
 4. NS indicates not sampled.
 5. GS-AP-MW-5, GS-AP-MW-9, GS-AP-MW-10, GS-AP-MW-11, and GS-AP-MW-14 were abandoned prior to the March 2020 event.
 6. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well Location Map.
 7. Geochemical profiles of MW-15 and MW-21 indicate potential grout contamination and do not appear to be representative of groundwater.
 8. MW-19 is screened within the Pratt Group but not across the Pratt coal seam, and therefore, was not factored into contouring.
 9. J values indicate estimated concentrations between the laboratory method detection limit and reporting limit.
 10. Wells without labels are screened in aquifer zones other than Pratt or Pratt/Gillespy.

Legend

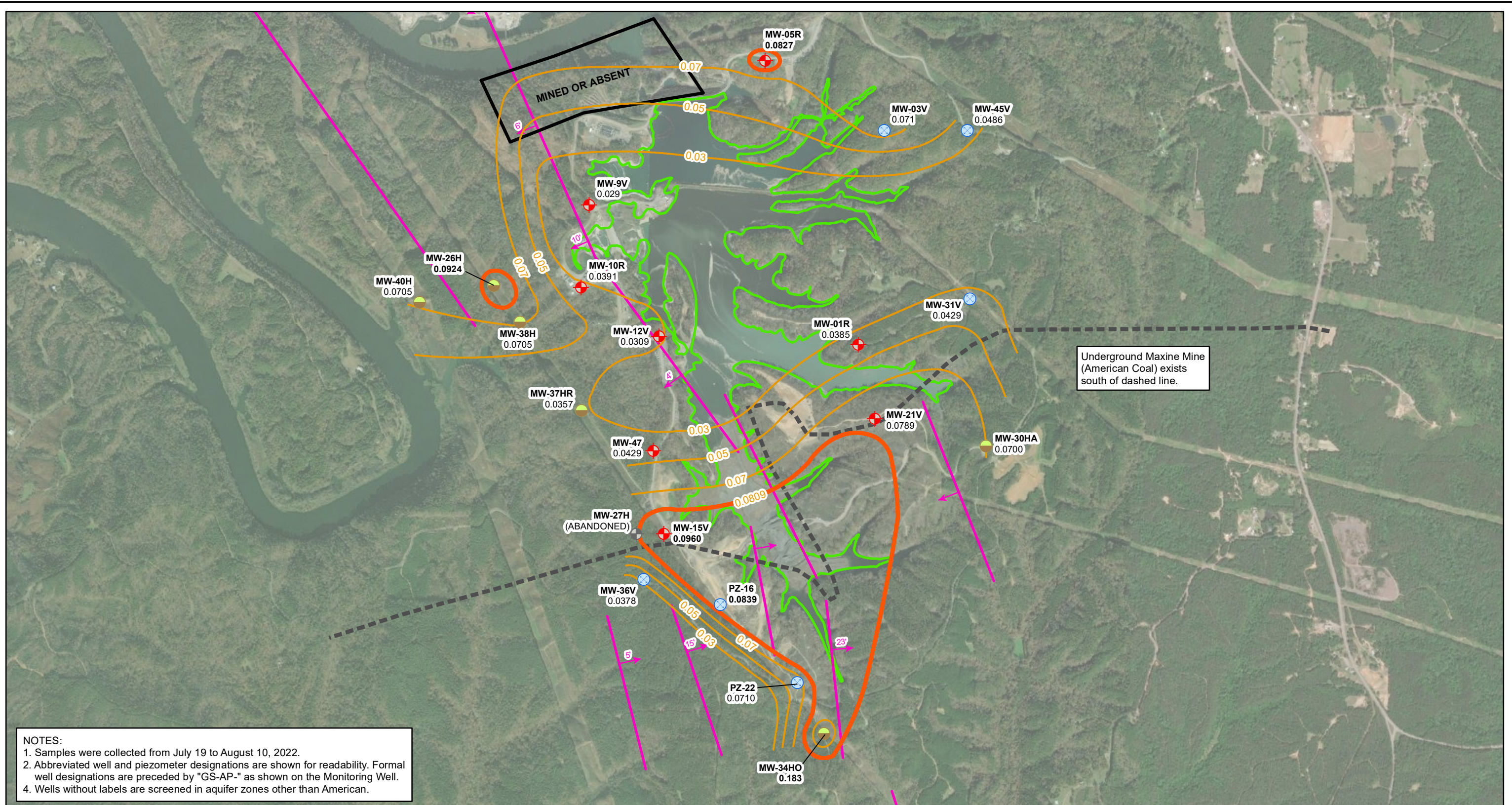
- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Abandoned Well
- Lithium GWPS Background Contour (0.0809 mg/L)
- Lithium Isoconcentration Contour (mg/L)
- Inferred Lithium Isoconcentration Contour (mg/L)
- Fault
- Dip Direction of Fault with Offset (ft)
- Pratt Mines
- Ash Pond Boundary

MW-17 Well ID
0.0646 Lithium Concentration (mg/L)



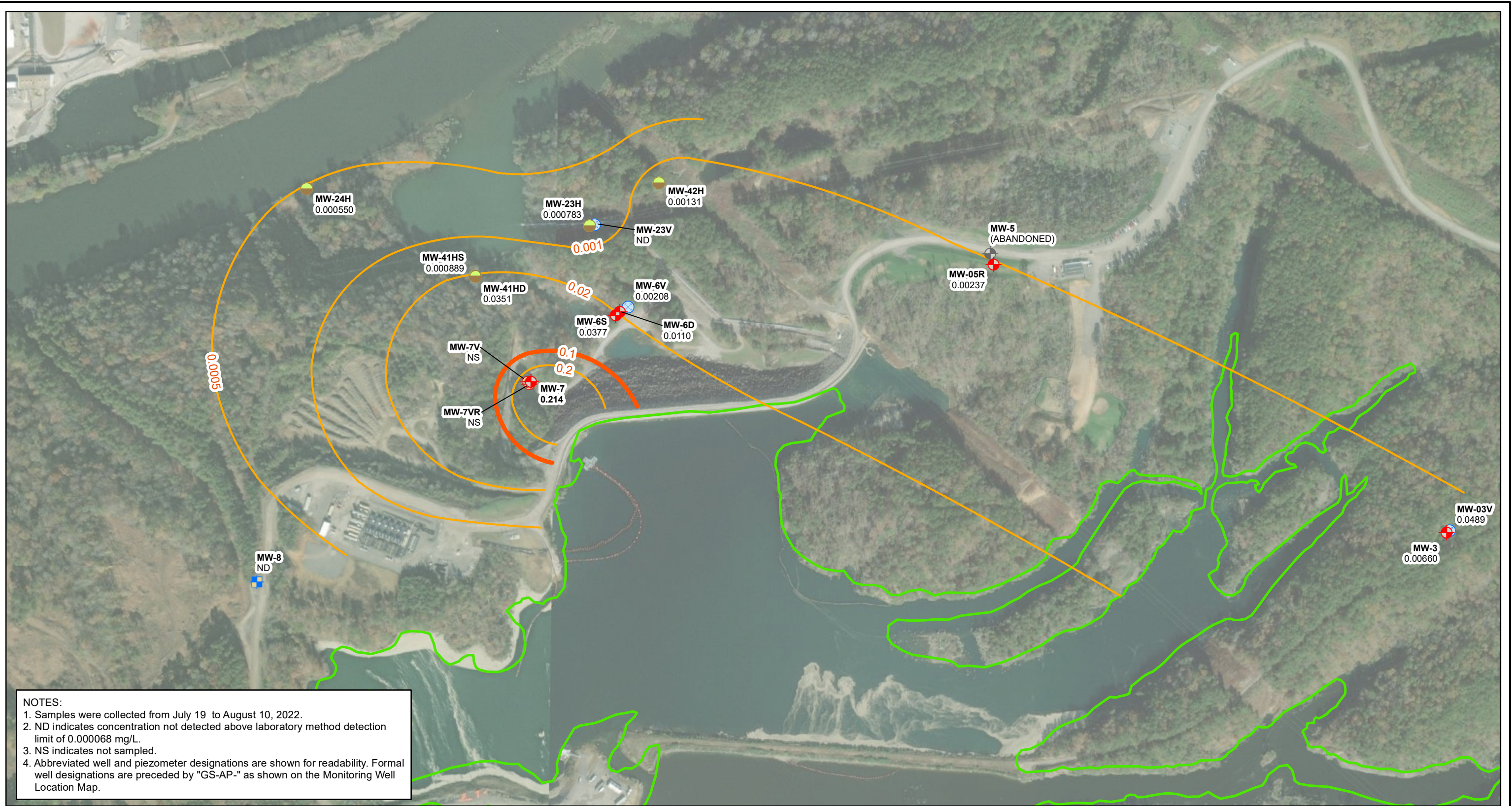
| | |
|------------|-----------|
| SCALE | 1:18000 |
| DATE | 6/20/2022 |
| DRAWN BY | KAR |
| CHECKED BY | GBD |

| | |
|---|-------------------|
| DRAWING TITLE | |
| LITHIUM ISOCONCENTRATION MAP PRATT AQUIFER JULY TO AUGUST 2022 PLANT GORGAS ASH POND | |
| FIGURE NO | FIGURE 12A |
| Southern Company | |



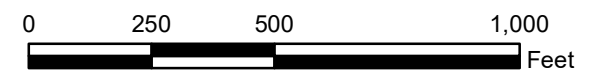
NOTES:
 1. Samples were collected from July 19 to August 10, 2022.
 2. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well.
 4. Wells without labels are screened in aquifer zones other than American.

| | | | | |
|-------------------|------------|-----------|------------------|--|
| Legend | SCALE | 1:18000 | DRAWING TITLE | LITHIUM ISOCONCENTRATION MAP AMERICAN AQUIFER JULY TO AUGUST 2022 PLANT GORGAS ASH POND |
| | DATE | 6/20/2022 | | |
| | DRAWN BY | KAR | FIGURE NO | FIGURE 12B |
| | CHECKED BY | GBD | Southern Company | |



NOTES:
 1. Samples were collected from July 19 to August 10, 2022.
 2. ND indicates concentration not detected above laboratory method detection limit of 0.000068 mg/L.
 3. NS indicates not sampled.
 4. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GS-AP-" as shown on the Monitoring Well Location Map.

| Legend | |
|--------|---|
| | Downgradient Monitoring Well |
| | Upgradient Monitoring Well |
| | Horizontal Delineation Well |
| | Vertical Delineation Well |
| | Piezometer |
| | Abandoned Well |
| | Molybdenum GWPS Contour (0.1 mg/L) |
| | Molybdenum Concentration Contour (mg/L) |
| | Ash Pond Boundary |
| | Well ID |
| | Molybdenum Concentration (mg/L) |



| | | | |
|------------|-----------|------------------|---|
| SCALE | 1:4695 | DRAWING TITLE | MOLYBDENUM ISOCONCENTRATION MAP JULY TO AUGUST 2022 PLANT GORGAS ASH POND |
| DATE | 1/20/2023 | | |
| DRAWN BY | KAR | FIGURE NO | FIGURE 13 |
| CHECKED BY | GBD | Southern Company | |

Tables



**Table 1a. - Compliance Monitoring Well Network Details
Plant Gorgas Ash Pond**

| Well ID | Hydraulic Location | Geologic Unit | Latitude | Longitude | Ground Surface Elevation (ft NAVD) | Top Of Casing Elevation (ft NAVD) | Well Depth (ft BTOC) | Top Of Screen Elevation (ft NAVD) | Bottom Of Screen Elevation (ft NAVD) | Screen Length (ft) | Date Of Installation |
|---------------------|--------------------|-------------------------------------|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| WELL NETWORK | | | | | | | | | | | |
| GS-AP-MW-8 | Upgradient | Pottsville Fm - Pratt Strata | 33.63767 | -87.19149 | 431.63 | 434.61 | 64.6 | 390.42 | 370.42 | 20 | 2/26/2016 |
| GS-AP-MW-17V | Upgradient | Pottsville Fm - Shallow Water Table | 33.61445 | -87.17943 | 528.75 | 531.45 | 151.4 | 400.45 | 380.45 | 20 | 1/20/2019 |
| GS-AP-MW-10R | Downgradient | Pottsville Fm - American Strata | 33.63144 | -87.19096 | 449.88 | 452.79 | 210.6 | 252.64 | 242.64 | 10 | 8/8/2021 |
| GS-AP-MW-11R | Downgradient | Pottsville Fm - Pratt Strata | 33.63084 | -87.18819 | 452.90 | 455.60 | 147.3 | 318.74 | 308.74 | 10 | 7/25/2021 |
| GS-AP-MW-13R | Downgradient | Pottsville Fm - Pratt Strata | 33.62746 | -87.18671 | 457.82 | 460.66 | 167.9 | 303.18 | 293.18 | 10 | 7/25/2021 |
| GS-AP-MW-14R | Downgradient | Pottsville Fm - Pratt Strata | 33.62444 | -87.18705 | 471.62 | 474.32 | 201.3 | 283.42 | 273.42 | 10 | 8/11/2021 |
| GS-AP-MW-18R | Downgradient | Pottsville Fm - Pratt Strata | 33.61434 | -87.17632 | 459.80 | 463.07 | 56.1 | 417.42 | 407.42 | 10 | 11/3/2021 |
| GS-AP-MW-18VR | Downgradient | Pottsville Fm - Pratt Strata | 33.61435 | -87.17638 | 459.55 | 462.80 | 220.2 | 253.00 | 243.00 | 10 | 11/3/2021 |
| GS-AP-MW-1R | Downgradient | Pottsville Fm - American Strata | 33.6291 | -87.1765 | 488.24 | 491.37 | 244.6 | 257.17 | 247.17 | 10 | 11/3/2021 |
| GS-AP-MW-3V | Downgradient | Pottsville Fm - American Strata | 33.63844 | -87.17529 | 510.28 | 513.40 | 217.5 | 306.33 | 296.33 | 10 | 9/26/2021 |
| GS-AP-MW-45V | Downgradient | Pottsville Fm - American Strata | 33.63847 | -87.17098 | 547.76 | 550.59 | 259.1 | 301.91 | 291.91 | 10 | 10/7/2021 |
| GS-AP-MW-46 | Downgradient | Pottsville Fm - Pratt Strata | 33.62911 | -87.17658 | 488.01 | 491.25 | 217.6 | 294.10 | 274.10 | 20 | 11/3/2021 |
| GS-AP-MW-47 | Downgradient | Pottsville Fm - American Strata | 33.62436 | -87.18708 | 471.88 | 475.09 | 242.6 | 242.85 | 232.85 | 10 | 11/6/2021 |

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1a. - Compliance Monitoring Well Network Details
Plant Gorgas Ash Pond**

| Well ID | Hydraulic Location | Geologic Unit | Latitude | Longitude | Ground Surface Elevation (ft NAVD) | Top Of Casing Elevation (ft NAVD) | Well Depth (ft BTOC) | Top Of Screen Elevation (ft NAVD) | Bottom Of Screen Elevation (ft NAVD) | Screen Length (ft) | Date Of Installation |
|---------------------|--------------------|-------------------------------------|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| WELL NETWORK | | | | | | | | | | | |
| GS-AP-MW-5R | Downgradient | Pottsville Fm - American Strata | 33.6414 | -87.18153 | 485.98 | 488.59 | 177.3 | 321.71 | 311.71 | 10 | 7/28/2021 |
| GS-AP-MW-9R | Downgradient | Pottsville Fm - Pratt Strata | 33.63494 | -87.19056 | 418.47 | 421.20 | 98.6 | 332.99 | 322.99 | 10 | 7/28/2021 |
| GS-AP-MW-2 | Downgradient | Pottsville Fm - Pratt Strata | 33.63363 | -87.17432 | 518.77 | 522.03 | 214.2 | 328.21 | 308.21 | 20 | 3/10/2016 |
| GS-AP-MW-3 | Downgradient | Pottsville Fm - Pratt Strata | 33.63841 | -87.17534 | 508.77 | 512.29 | 180.5 | 342.17 | 332.17 | 10 | 3/4/2016 |
| GS-AP-MW-6S | Downgradient | Pottsville Fm - Gillespy Transition | 33.64076 | -87.18666 | 271.57 | 274.67 | 46.6 | 238.52 | 228.52 | 10 | 1/19/2016 |
| GS-AP-MW-6D | Downgradient | Pottsville Fm - Gillespy Transition | 33.6408 | -87.18661 | 271.39 | 274.50 | 64.5 | 220.42 | 210.42 | 10 | 1/18/2016 |
| GS-AP-MW-7 | Downgradient | Pottsville Fm - Gillespy Transition | 33.63999 | -87.1878 | 310.05 | 313.45 | 100.5 | 223.36 | 213.36 | 10 | 1/26/2016 |
| GS-AP-MW-12 | Downgradient | Pottsville Fm - Pratt Strata | 33.62932 | -87.18679 | 447.48 | 450.67 | 154.0 | 307.09 | 297.09 | 10 | 4/20/2016 |
| GS-AP-MW-15 | Downgradient | Pottsville Fm - Pratt Strata | 33.62079 | -87.18642 | 452.21 | 454.89 | 200.1 | 265.21 | 255.21 | 10 | 2/8/2016 |
| GS-AP-MW-16D | Downgradient | Pottsville Fm - Nickel Plate Strata | 33.61772 | -87.18351 | 459.09 | 462.27 | 224.2 | 258.44 | 238.44 | 20 | 4/20/2016 |
| GS-AP-MW-17 | Downgradient | Pottsville Fm - Pratt Strata | 33.61442 | -87.17944 | 528.78 | 531.88 | 248.9 | 293.43 | 283.43 | 10 | 2/11/2016 |
| GS-AP-MW-19 | Downgradient | Pottsville Fm - Pratt Strata | 33.61818 | -87.17718 | 492.60 | 495.58 | 179.2 | 283.43 | 273.43 | 20 | 4/29/2016 |
| GS-AP-MW-21 | Downgradient | Pottsville Fm - Pratt Strata | 33.62586 | -87.17565 | 506.51 | 509.48 | 236.5 | 283.03 | 273.03 | 10 | 1/18/2019 |

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1a. - Compliance Monitoring Well Network Details
Plant Gorgas Ash Pond**

| Well ID | Hydraulic Location | Geologic Unit | Latitude | Longitude | Ground Surface Elevation (ft NAVD) | Top Of Casing Elevation (ft NAVD) | Well Depth (ft BTOC) | Top Of Screen Elevation (ft NAVD) | Bottom Of Screen Elevation (ft NAVD) | Screen Length (ft) | Date Of Installation |
|---------------------|--------------------|---------------------------------|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| WELL NETWORK | | | | | | | | | | | |
| GS-AP-MW-9V | Downgradient | Pottsville Fm - American Strata | 33.63502 | -87.19058 | 418.25 | 420.86 | 138.1 | 292.81 | 282.81 | 10 | 11/6/2019 |
| GS-AP-MW-12V | Downgradient | Pottsville Fm - American Strata | 33.62936 | -87.18687 | 478.64 | 481.32 | 179.1 | 312.22 | 302.22 | 10 | 1/9/2019 |
| GS-AP-MW-15V | Downgradient | Pottsville Fm - American Strata | 33.62079 | -87.18649 | 452.91 | 455.89 | 235.4 | 230.51 | 220.51 | 10 | 10/28/2019 |
| GS-AP-MW-21V | Downgradient | Pottsville Fm - American Strata | 33.62589 | -87.17559 | 507.59 | 509.84 | 249.0 | 270.89 | 260.89 | 10 | 9/26/2019 |

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details
Plant Gorgas Ash Pond**

| Well ID | Hydraulic Location | Geologic Unit | Latitude | Longitude | Ground Surface Elevation (ft NAVD) | Top Of Casing Elevation (ft NAVD) | Well Depth (ft BTOC) | Top Of Screen Elevation (ft NAVD) | Bottom Of Screen Elevation (ft NAVD) | Screen Length (ft) | Date Of Installation |
|---------------------|------------------------|-------------------------------------|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| WELL NETWORK | | | | | | | | | | | |
| GS-AP-MW-23V | Vertical Delineation | Pottsville Fm - Gillespy Transition | 33.64178 | -87.18697 | 303.34 | 306.40 | 87.4 | 229.42 | 219.42 | 10 | 10/7/2021 |
| GS-AP-MW-31V | Vertical Delineation | Pottsville Fm - American Strata | 33.63115 | -87.17073 | 585.88 | 588.49 | 328.3 | 270.56 | 260.56 | 10 | 11/5/2021 |
| GS-AP-MW-36V | Vertical Delineation | Pottsville Fm - American Strata | 33.61879 | -87.18748 | 533.82 | 537.05 | 319.4 | 228.10 | 218.10 | 10 | 10/7/2021 |
| GS-AP-PZ-18R | Vertical Delineation | Pottsville Fm - Nickel Plate Strata | 33.61433 | -87.17626 | 459.81 | 463.13 | 116.0 | 357.50 | 347.50 | 10 | 11/3/2021 |
| GS-AP-MW-6V | Vertical Delineation | Pottsville Fm - Gillespy Transition | 33.64085 | -87.18649 | 272.84 | 275.44 | 98.5 | 184.34 | 174.34 | 10 | 6/23/2020 |
| GS-AP-PZ-16 | Vertical Delineation | Pottsville Fm - American Strata | 33.61773 | -87.1835 | 458.83 | 462.29 | 252.7 | 219.63 | 209.63 | 10 | 3/16/2016 |
| GS-AP-PZ-22 | Vertical Delineation | Pottsville Fm - American Strata | 33.61438 | -87.17944 | 529.31 | 532.38 | 328.1 | 214.31 | 204.31 | 10 | 4/11/2016 |
| GS-AP-MW-27HR | Horizontal Delineation | Pottsville Fm - Pratt Strata | 33.6207 | -87.18793 | 531.32 | 535.26 | 279.8 | 265.86 | 255.86 | 10 | 7/9/2021 |
| GS-AP-MW-37HR | Horizontal Delineation | Pottsville Fm - American Strata | 33.62609 | -87.19083 | 457.27 | 460.05 | 243.1 | 227.35 | 217.35 | 10 | 10/7/2021 |
| GS-AP-MW-23H | Horizontal Delineation | Pottsville Fm - Gillespy Transition | 33.64177 | -87.18703 | 301.90 | 304.98 | 42.5 | 272.48 | 262.48 | 10 | 1/4/2019 |
| GS-AP-MW-24H | Horizontal Delineation | Pottsville Fm - Gillespy Transition | 33.64215 | -87.19088 | 258.38 | 261.35 | 62.8 | 208.55 | 198.55 | 10 | 1/3/2019 |
| GS-AP-MW-26H | Horizontal Delineation | Pottsville Fm - American Strata | 33.63147 | -87.19548 | 391.68 | 394.68 | 193.6 | 211.08 | 201.08 | 10 | 1/22/2019 |
| GS-AP-MW-28H | Horizontal Delineation | Pottsville Fm - Pratt Strata | 33.61378 | -87.17924 | 513.84 | 513.82 | 229.7 | 294.12 | 284.12 | 10 | 2/26/2019 |

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details
Plant Gorgas Ash Pond**

| Well ID | Hydraulic Location | Geologic Unit | Latitude | Longitude | Ground Surface Elevation (ft NAVD) | Top Of Casing Elevation (ft NAVD) | Well Depth (ft BTOC) | Top Of Screen Elevation (ft NAVD) | Bottom Of Screen Elevation (ft NAVD) | Screen Length (ft) | Date Of Installation |
|---------------------|------------------------|-------------------------------------|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| WELL NETWORK | | | | | | | | | | | |
| GS-AP-MW-29H | Horizontal Delineation | Pottsville Fm - Pratt Strata | 33.61411 | -87.17663 | 440.71 | 440.95 | 130.6 | 320.31 | 310.31 | 10 | 2/5/2019 |
| GS-AP-MW-25HA | Horizontal Delineation | Pottsville Fm - Gillespy Transition | 33.63575 | -87.19403 | 458.98 | 462.27 | 342.9 | 129.37 | 119.37 | 10 | 11/7/2019 |
| GS-AP-MW-30HA | Horizontal Delineation | Pottsville Fm - American Strata | 33.62477 | -87.16979 | 579.99 | 582.40 | 338.0 | 254.45 | 244.45 | 10 | 10/23/2019 |
| GS-AP-MW-31H | Horizontal Delineation | Pottsville Fm - Pratt Strata | 33.63109 | -87.17078 | 584.48 | 587.39 | 287.6 | 309.81 | 299.81 | 10 | 10/11/2019 |
| GS-AP-MW-32H | Horizontal Delineation | Pottsville Fm - Pratt Strata | 33.61739 | -87.17191 | 547.43 | 550.03 | 304.1 | 265.98 | 245.98 | 20 | 10/12/2019 |
| GS-AP-MW-33HO | Horizontal Delineation | Pottsville Fm - Pratt Strata | 33.61366 | -87.17301 | 524.08 | 526.79 | 282.9 | 263.88 | 243.88 | 20 | 11/7/2019 |
| GS-AP-MW-34HO | Horizontal Delineation | Pottsville Fm - American Strata | 33.61219 | -87.17802 | 521.18 | 523.82 | 327.6 | 206.22 | 196.22 | 10 | 11/9/2019 |
| GS-AP-MW-35HO | Horizontal Delineation | Pottsville Fm - Pratt Strata | 33.6149 | -87.18368 | 550.60 | 553.35 | 320.5 | 242.87 | 232.87 | 10 | 11/20/2019 |
| GS-AP-MW-36H | Horizontal Delineation | Pottsville Fm - Pratt Strata | 33.61873 | -87.18729 | 533.67 | 536.61 | 283.1 | 263.51 | 253.51 | 10 | 10/28/2019 |
| GS-AP-MW-39H | Horizontal Delineation | Pottsville Fm - Unassigned | 33.63126 | -87.1916 | 448.47 | 451.13 | 348.5 | 122.63 | 102.63 | 20 | 10/29/2019 |
| GS-AP-MW-40H | Horizontal Delineation | Pottsville Fm - American Strata | 33.63069 | -87.19933 | 355.07 | 357.91 | 90.3 | 274.77 | 264.77 | 10 | 5/1/2020 |
| GS-AP-MW-41HS | Horizontal Delineation | Pottsville Fm - Gillespy Transition | 33.64119 | -87.18858 | 281.75 | 284.65 | 37.7 | 257.00 | 247.00 | 10 | 10/28/2019 |
| GS-AP-MW-38H | Horizontal Delineation | Pottsville Fm - American Strata | 33.6299 | -87.19411 | 343.41 | 345.74 | 168.2 | 187.54 | 177.54 | 10 | 11/22/2019 |

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details
Plant Gorgas Ash Pond**

| Well ID | Hydraulic Location | Geologic Unit | Latitude | Longitude | Ground Surface Elevation (ft NAVD) | Top Of Casing Elevation (ft NAVD) | Well Depth (ft BTOC) | Top Of Screen Elevation (ft NAVD) | Bottom Of Screen Elevation (ft NAVD) | Screen Length (ft) | Date Of Installation |
|---------------------|------------------------|-------------------------------------|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| WELL NETWORK | | | | | | | | | | | |
| GS-AP-MW-41HD | Horizontal Delineation | Pottsville Fm - Gillespy Transition | 33.64118 | -87.18857 | 282.32 | 284.54 | 58.3 | 236.24 | 226.24 | 10 | 10/27/2019 |
| GS-AP-MW-42H | Horizontal Delineation | Pottsville Fm - Gillespy Transition | 33.64227 | -87.1861 | 338.61 | 340.62 | 87.5 | 263.11 | 253.11 | 10 | 10/29/2019 |
| GS-AP-MW-43HO | Horizontal Delineation | Pottsville Fm - Pratt Strata | 33.63169 | -87.17419 | 511.87 | 514.62 | 222.8 | 311.87 | 291.87 | 20 | 11/11/2019 |
| GS-AP-MW-44HO | Horizontal Delineation | Pottsville Fm - Pratt Strata | 33.63147 | -87.17478 | 503.33 | 506.21 | 205.6 | 308.23 | 298.23 | 10 | 8/16/2020 |

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1c. - Piezometer Well Network Details
Plant Gorgas Ash Pond**

| Well ID | Hydraulic Location | Geologic Unit | Latitude | Longitude | Ground Surface Elevation (ft NAVD) | Top Of Casing Elevation (ft NAVD) | Well Depth (ft BTOC) | Top Of Screen Elevation (ft NAVD) | Bottom Of Screen Elevation (ft NAVD) | Screen Length (ft) | Date Of Installation |
|---------------------|--------------------|-------------------------------------|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| WELL NETWORK | | | | | | | | | | | |
| GS-AP-MW-4 | Piezometer | Pottsville Fm - Pratt Strata | 33.6414 | -87.17321 | 504.61 | 507.90 | 163.3 | 354.61 | 344.61 | 10 | 3/7/2016 |
| GS-AP-MW-16S | Piezometer | Pottsville Fm - Shallow Water Table | 33.61771 | -87.18353 | 459.04 | 462.42 | 133.4 | 349.04 | 329.04 | 20 | 4/18/2016 |
| GS-AP-MW-20 | Piezometer | Pottsville Fm - Pratt Strata | 33.6231 | -87.17209 | 525.18 | 528.15 | 250.0 | 288.18 | 278.18 | 10 | 2/1/2019 |
| GS-AP-MW-7VR | Piezometer | Pottsville Fm - Gillespy Transition | 33.63997 | -87.18782 | 311.04 | 313.89 | 150.3 | 171.74 | 161.74 | 10 | 4/18/2020 |
| GS-AP-MW-7V | Piezometer | Pottsville Fm - Gillespy Transition | 33.63999 | -87.18785 | 309.46 | 312.14 | 202.7 | 119.46 | 109.46 | 10 | 1/18/2019 |
| GS-AP-MW-25H | Piezometer | Pottsville Fm - Pratt Strata | 33.63577 | -87.19405 | 458.66 | 461.79 | 168.1 | 303.66 | 293.66 | 10 | 1/2/2019 |
| GS-AP-MW-30H | Piezometer | Pottsville Fm - Pratt Strata | 33.62473 | -87.16975 | 579.62 | 582.49 | 295.9 | 296.62 | 286.62 | 10 | 1/8/2019 |
| GS-AP-MW-30HS | Piezometer | Pottsville Fm - Shallow Water Table | 33.62474 | -87.16977 | 579.84 | 582.53 | 47.2 | 545.34 | 535.34 | 10 | 1/10/2019 |

Notes:

ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing

(1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.

(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.

(3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1d. - Abandoned Well Network Details
Plant Gorgas Ash Pond**

| Well ID | Hydraulic Location | Geologic Unit | Latitude | Longitude | Ground Surface Elevation (ft NAVD) | Top Of Casing Elevation (ft NAVD) | Well Depth (ft BTOC) | Top Of Screen Elevation (ft NAVD) | Bottom Of Screen Elevation (ft NAVD) | Screen Length (ft) | Date Of Installation |
|---------------------|--------------------|---------------------------------|----------|-----------|------------------------------------|-----------------------------------|----------------------|-----------------------------------|--------------------------------------|--------------------|----------------------|
| WELL NETWORK | | | | | | | | | | | |
| GS-AP-MW-1 | Abandoned | Pottsville Fm - Pratt Strata | 33.62908 | -87.17658 | 487.30 | 490.68 | 148.4 | 362.30 | 342.30 | 20 | 2/24/2016 |
| GS-AP-MW-5 | Abandoned | Pottsville Fm - Pratt Strata | 33.64151 | -87.18158 | 483.80 | 487.17 | 149.4 | 347.80 | 337.80 | 10 | 4/2/2016 |
| GS-AP-MW-9 | Abandoned | Pottsville Fm - Pratt Strata | 33.63504 | -87.19044 | 417.06 | 420.04 | 111.4 | 307.09 | 297.09 | 20 | 4/22/2016 |
| GS-AP-MW-10 | Abandoned | Pottsville Fm - Unassigned | 33.63192 | -87.19137 | 464.94 | 468.41 | 144.9 | 265.21 | 255.21 | 20 | 1/21/2016 |
| GS-AP-MW-11 | Abandoned | Pottsville Fm - Pratt Strata | 33.63092 | -87.18869 | 465.34 | 468.34 | 139.9 | 348.44 | 328.44 | 20 | 2/4/2016 |
| GS-AP-MW-13 | Abandoned | Pottsville Fm - Pratt Strata | 33.62659 | -87.186 | 461.03 | 464.20 | 113.6 | 265.21 | 255.21 | 20 | 2/4/2016 |
| GS-AP-MW-14 | Abandoned | Pottsville Fm - Pratt Strata | 33.62389 | -87.18697 | 469.60 | 472.40 | 203.2 | 279.20 | 269.20 | 10 | 1/30/2016 |
| GS-AP-MW-18 | Abandoned | Pottsville Fm - Pratt Strata | 33.61468 | -87.17703 | 400.17 | 403.39 | 98.7 | 336.79 | 316.79 | 20 | 3/29/2016 |
| GS-AP-PZ-18 | Abandoned | Pottsville Fm - American Strata | 33.61473 | -87.17704 | 399.77 | 402.38 | 183.8 | 228.59 | 218.59 | 10 | 2/25/2016 |
| GS-AP-MW-18V | Abandoned | Pottsville Fm - American Strata | 33.61466 | -87.177 | 401.81 | 404.61 | 137.7 | 276.90 | 266.90 | 10 | 1/30/2019 |
| GS-AP-MW-27H | Abandoned | Pottsville Fm - American Strata | 33.62075 | -87.1879 | 532.08 | 535.03 | 245.0 | 300.08 | 290.08 | 10 | 2/12/2019 |
| GS-AP-MW-37H | Abandoned | Pottsville Fm - Pratt Strata | 33.62611 | -87.19093 | 456.12 | 459.28 | 293.5 | 185.83 | 165.83 | 20 | 10/23/2019 |

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS 84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD) 1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.

Table 2. Parameters And Reporting Limits

Plant Gorgas Ash Pond
02/08/2022 - 08/10/2022

| Appendix III Parameters | | | |
|---------------------------|--------------------------|-------------------|------------------|
| Parameters | Analytical Methods | Reporting Limits | Units of Measure |
| Boron | EPA 200.7 | 0.1015 | mg/L |
| Calcium | EPA 200.7 | 0.406-40.599998 | mg/L |
| Chloride | SM4500Cl E | 1-100 | mg/L |
| Fluoride | SM4500F G 2017 | 0.1-0.125 | mg/L |
| pH_Field | Field Sampling | NA | SU |
| Sulfate | SM4500SO4 E 2011 | 1-160 | mg/L |
| TDS | NA | NA | mg/L |
| Appendix IV Parameters | | | |
| Parameters | Analytical Methods | Reporting Limits | Units of Measure |
| Antimony | EPA 200.8 | 0.001015 | mg/L |
| Arsenic | EPA 200.8 | 0.000203 | mg/L |
| Barium | EPA 200.8 | 0.000203-0.001015 | mg/L |
| Beryllium | EPA 200.8 | 0.001015 | mg/L |
| Cadmium | EPA 200.8 | 0.000203 | mg/L |
| Chromium | EPA 200.8 | 0.001015 | mg/L |
| Cobalt | EPA 200.8 | 0.000203 | mg/L |
| Lead | EPA 200.8 | 0.000203 | mg/L |
| Lithium | EPA 200.7 | 0.02 | mg/L |
| Mercury | EPA 245.1 | 0.0005 | mg/L |
| Molybdenum | EPA 200.8 | 0.000203 | mg/L |
| Selenium | EPA 200.8 | 0.001015 | mg/L |
| Thallium | EPA 200.8 | 0.000203 | mg/L |
| Combined Radium 226 + 228 | Total Radium Calculation | 0.787-1.48 | pCi/L |

Notes:

1. Reporting Limit values can display range depending upon matrix interferences and dilution factors
2. pH is a field acquired parameter and does not have a laboratory method or reporting limit
3. Combined Radium 226 + 228 – product of radium-226 + radium-228; reporting limits presented are sum of radium 226, radium 228 reporting limits
4. EPA 200.7 – EPA methodology for the "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry"
5. EPA 200.8 - EPA methodology for the "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)"
6. SM 2320, 2540, 4500 – Standard Methods for Examination of Water and Wastewater.
7. Total Radium Calculation – Term used herein for EPA 9315 + EPA 9320
8. EPA 9315 – Used for Radium-226; SW-846: Alpha-Emitting Radium Isotopes, part of Test Methods for Evaluation Solid Waste, Physical/Chemical Methods
9. EPA 9320 – Used for Radium-228; SW-846: Alpha-Emitting Radium Isotopes, part of Test Methods for Evaluation Solid Waste, Physical/Chemical Methods



Table 3. Groundwater Elevations Summary

**Plant Gorgas Ash Pond
02/07/2022 - 07/18/2022**

| Measurement Date | | 02/07/2022 | | 07/18/2022 | |
|------------------|--------------------------|---------------------------|----------------------------------|---------------------------|----------------------------------|
| Well | TOC Elevation (ft. NAVD) | Depth To Water (ft. BTOC) | Groundwater Elevation (ft. NAVD) | Depth To Water (ft. BTOC) | Groundwater Elevation (ft. NAVD) |
| GS-AP-MW-10R | 452.79 | 144.66 | 308.13 | 146.05 | 306.74 |
| GS-AP-MW-11R | 455.60 | 74.19 | 381.41 | 76.92 | 378.68 |
| GS-AP-MW-12 | 450.67 | 70.84 | 379.83 | 74.08 | 376.59 |
| GS-AP-MW-12V | 481.32 | 89.68 | 391.64 | 92.23 | 389.09 |
| GS-AP-MW-13R | 460.66 | 98.67 | 361.99 | 101.08 | 359.58 |
| GS-AP-MW-14R | 474.32 | 103.94 | 370.38 | 104.86 | 369.46 |
| GS-AP-MW-15 | 454.89 | 80.71 | 374.18 | 81.55 | 373.34 |
| GS-AP-MW-15V | 455.89 | 147.21 | 308.68 | 170.54 | 285.35 |
| GS-AP-MW-16D | 462.27 | 138.22 | 324.05 | 153.90 | 308.37 |
| GS-AP-MW-16S | 462.42 | 56.38 | 406.04 | 58.81 | 403.61 |
| GS-AP-MW-17 | 531.88 | 170.58 | 361.30 | 181.53 | 350.35 |
| GS-AP-MW-17V | 531.45 | 106.26 | 425.19 | 109.05 | 422.40 |
| GS-AP-MW-18R | 463.07 | 40.59 | 422.48 | 40.29 | 422.78 |
| GS-AP-MW-18VR | 462.80 | 170.43 | 292.37 | 209.42 | 253.38 |
| GS-AP-MW-19 | 495.58 | 113.04 | 382.54 | 114.50 | 381.08 |
| GS-AP-MW-1R | 491.37 | 164.91 | 326.46 | 182.91 | 308.46 |
| GS-AP-MW-2 | 522.03 | 146.90 | 375.13 | 150.12 | 371.91 |
| GS-AP-MW-20 | 528.15 | 207.12 | 321.03 | 219.38 | 308.77 |
| GS-AP-MW-21 | 509.48 | 162.85 | 346.63 | 174.31 | 335.17 |
| GS-AP-MW-21V | 509.84 | 172.22 | 337.62 | 185.71 | 324.13 |
| GS-AP-MW-23H | 304.98 | 27.70 | 277.28 | 28.69 | 276.29 |
| GS-AP-MW-23V | 306.40 | 43.72 | 262.68 | 43.46 | 262.94 |
| GS-AP-MW-24H | 261.35 | 6.21 | 255.14 | 6.24 | 255.11 |
| GS-AP-MW-25H | 461.79 | 160.42 | 301.37 | 161.16 | 300.63 |
| GS-AP-MW-25HA | 462.27 | 175.66 | 286.61 | 175.96 | 286.31 |
| GS-AP-MW-26H | 394.68 | 95.49 | 299.19 | 96.66 | 298.02 |
| GS-AP-MW-27HR | 535.26 | 161.03 | 374.23 | 162.15 | 373.11 |
| GS-AP-MW-28H | 513.82 | 152.41 | 361.41 | 163.65 | 350.17 |
| GS-AP-MW-29H | 440.95 | 78.92 | 362.03 | 79.56 | 361.39 |
| GS-AP-MW-3 | 512.29 | 138.62 | 373.67 | 141.66 | 370.63 |
| GS-AP-MW-30H | 582.49 | 267.32 | 315.17 | 272.62 | 309.87 |
| GS-AP-MW-30HA | 582.40 | 290.19 | 292.21 | 330.08 | 252.32 |
| GS-AP-MW-30HS | 582.53 | 47.78 | 534.75 | 47.76 | 534.77 |

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing; N/A = Not Acquired



Table 3. Groundwater Elevations Summary

**Plant Gorgas Ash Pond
02/07/2022 - 07/18/2022**

| Measurement Date | | 02/07/2022 | | 07/18/2022 | |
|------------------|--------------------------|---------------------------|----------------------------------|---------------------------|----------------------------------|
| Well | TOC Elevation (ft. NAVD) | Depth To Water (ft. BTOC) | Groundwater Elevation (ft. NAVD) | Depth To Water (ft. BTOC) | Groundwater Elevation (ft. NAVD) |
| GS-AP-MW-31H | 587.39 | 235.07 | 352.32 | 237.21 | 350.18 |
| GS-AP-MW-31V | 588.49 | 272.71 | 315.78 | 288.30 | 300.19 |
| GS-AP-MW-32H | 550.03 | 249.82 | 300.21 | 272.19 | 277.84 |
| GS-AP-MW-33HO | 526.79 | 232.63 | 294.16 | 254.90 | 271.89 |
| GS-AP-MW-34HO | 523.82 | 231.94 | 291.88 | 271.37 | 252.45 |
| GS-AP-MW-35HO | 553.35 | 252.64 | 300.71 | 271.00 | 282.35 |
| GS-AP-MW-36H | 536.61 | 231.91 | 304.70 | 248.16 | 288.45 |
| GS-AP-MW-36V | 537.05 | 243.13 | 293.92 | 272.37 | 264.68 |
| GS-AP-MW-37HR | 460.05 | 141.06 | 318.99 | 144.20 | 315.85 |
| GS-AP-MW-38H | 345.74 | 47.03 | 298.71 | 48.08 | 297.66 |
| GS-AP-MW-39H | 451.13 | 275.13 | 176.00 | 266.02 | 185.11 |
| GS-AP-MW-3V | 513.40 | 149.53 | 363.87 | 154.00 | 359.40 |
| GS-AP-MW-4 | 507.90 | 135.89 | 372.01 | 137.89 | 370.01 |
| GS-AP-MW-40H | 357.91 | 79.58 | 278.33 | 80.71 | 277.20 |
| GS-AP-MW-41HD | 284.54 | 1.98 | 282.56 | 1.52 | 283.02 |
| GS-AP-MW-41HS | 284.65 | 20.43 | 264.22 | 21.83 | 262.82 |
| GS-AP-MW-42H | 340.62 | 52.14 | 288.48 | 53.06 | 287.56 |
| GS-AP-MW-43HO | 514.62 | 149.56 | 365.06 | 152.11 | 362.51 |
| GS-AP-MW-44HO | 506.21 | 141.16 | 365.05 | 143.91 | 362.30 |
| GS-AP-MW-45V | 550.59 | 198.54 | 352.05 | 203.29 | 347.30 |
| GS-AP-MW-46 | 491.25 | 124.60 | 366.65 | 131.42 | 359.83 |
| GS-AP-MW-47 | 475.09 | 117.89 | 357.20 | 122.83 | 352.26 |
| GS-AP-MW-5R | 488.59 | 141.39 | 347.20 | 144.16 | 344.43 |
| GS-AP-MW-6D | 274.50 | 11.71 | 262.79 | 11.29 | 263.21 |
| GS-AP-MW-6S | 274.67 | 17.51 | 257.16 | 17.41 | 257.26 |
| GS-AP-MW-6V | 275.44 | 13.56 | 261.88 | 13.96 | 261.48 |
| GS-AP-MW-7 | 313.45 | 9.76 | 303.69 | 10.39 | 303.06 |
| GS-AP-MW-7V | 312.14 | 183.92 | 128.22 | 179.16 | 132.98 |
| GS-AP-MW-7VR | 313.89 | 49.76 | 264.13 | 50.24 | 263.65 |
| GS-AP-MW-8 | 434.61 | 43.14 | 391.47 | 43.41 | 391.20 |
| GS-AP-MW-9R | 421.20 | 59.71 | 361.49 | 60.49 | 360.71 |
| GS-AP-MW-9V | 420.86 | 54.67 | 366.19 | 57.28 | 363.58 |
| GS-AP-PZ-16 | 462.29 | 170.20 | 292.09 | 209.84 | 252.45 |

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing; N/A = Not Acquired



Table 3. Groundwater Elevations Summary

Plant Gorgas Ash Pond
02/07/2022 - 07/18/2022

| Measurement Date | | 02/07/2022 | | 07/18/2022 | |
|------------------|-----------------------------|---------------------------------|--|---------------------------------|--|
| Well | TOC Elevation (ft. NAVD) | Depth To Water (ft. BTOC) | Groundwater Elevation (ft. NAVD) | Depth To Water (ft. BTOC) | Groundwater Elevation (ft. NAVD) |
| GS-AP-PZ-18R | 463.13 | 95.90 | 367.23 | 95.93 | 367.20 |
| GS-AP-PZ-22 | 532.38 | 240.42 | 291.96 | 279.96 | 252.42 |

Notes:

ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing;
N/A = Not Acquired



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gorgas Ash Pond
02/09/2022 - 08/03/2022

| GS-AP-MW-46 | | | | |
|--------------------------------|--------------|------------------------|-------------------------|----------------|
| Sample Date = 8/2/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Boron | mg/L | 0.832 | 0.824 | 0.97% |
| Calcium | mg/L | 1.21 | 1.2 | 0.83% |
| Chloride | mg/L | 37 | 36.1 | 2.46% |
| Fluoride | mg/L | 0.249 | 0.252 | 1.20% |
| Sulfate | mg/L | 200 | 208 | 3.92% |
| Arsenic | mg/L | 0.119 | 0.121 | 1.67% |
| Barium | mg/L | 0.0696 | 0.0699 | 0.43% |
| Lithium | mg/L | 0.0756 | 0.0749 | 0.93% |
| Molybdenum | mg/L | 0.00955 | 0.00936 | 2.01% |
| GS-AP-PZ-18R | | | | |
| Sample Date = 7/27/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 63.1 | 63.8 | 1.10% |
| Chloride | mg/L | 4.98 | 4.88 | 2.03% |
| Fluoride | mg/L | 0.157 | 0.162 | 3.14% |
| Sulfate | mg/L | 48.2 | 49.1 | 1.85% |
| Arsenic | mg/L | 0.00143 | 0.00144 | 0.70% |
| Barium | mg/L | 0.0668 | 0.0642 | 3.97% |
| Molybdenum | mg/L | 0.00077 | 0.00062 | 20.30% |
| GS-AP-MW-33HO | | | | |
| Sample Date = 7/26/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 20.1 | 20 | 0.50% |
| Chloride | mg/L | 14.4 | 14.7 | 2.06% |
| Fluoride | mg/L | 0.188 | 0.174 | 7.74% |
| Sulfate | mg/L | 15.6 | 15.9 | 1.91% |
| Arsenic | mg/L | 0.0003 | 0.0003 | 0.67% |
| Barium | mg/L | 0.356 | 0.359 | 0.84% |
| Lithium | mg/L | 0.0501 | 0.0491 | 2.02% |
| Molybdenum | mg/L | 0.00194 | 0.00195 | 0.51% |
| GS-AP-MW-11R | | | | |
| Sample Date = 7/19/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Boron | mg/L | 0.111 | 0.111 | 0.00% |



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gorgas Ash Pond
02/09/2022 - 08/03/2022

| GS-AP-MW-11R | | | | |
|--------------------------------|--------------|------------------------|-------------------------|----------------|
| Sample Date = 7/19/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 56.8 | 51.8 | 9.21% |
| Chloride | mg/L | 5.38 | 5.4 | 0.37% |
| Sulfate | mg/L | 39.4 | 38.8 | 1.54% |
| Arsenic | mg/L | 0.00137 | 0.00133 | 2.96% |
| Barium | mg/L | 0.11 | 0.108 | 1.84% |
| Lithium | mg/L | 0.0289 | 0.0286 | 1.04% |
| GS-AP-MW-18R | | | | |
| Sample Date = 2/22/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 20.3 | 20.5 | 0.98% |
| Chloride | mg/L | 3.52 | 3.41 | 3.18% |
| Fluoride | mg/L | 0.124 | 0.118 | 4.96% |
| Sulfate | mg/L | 27 | 26.8 | 0.74% |
| Arsenic | mg/L | 0.00037 | 0.00035 | 6.18% |
| Barium | mg/L | 0.0716 | 0.0713 | 0.42% |
| Cobalt | mg/L | 0.00066 | 0.00068 | 2.84% |
| Molybdenum | mg/L | 0.00028 | 0.00025 | 12.38% |
| Sample Date = 8/3/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 30.8 | 30.8 | 0.00% |
| Chloride | mg/L | 4.34 | 4.34 | 0.00% |
| Sulfate | mg/L | 21.2 | 20.7 | 2.39% |
| Arsenic | mg/L | 0.00043 | 0.00044 | 2.99% |
| Barium | mg/L | 0.0895 | 0.0892 | 0.34% |
| Cobalt | mg/L | 0.00056 | 0.00058 | 3.14% |
| Molybdenum | mg/L | 0.00053 | 0.0005 | 5.64% |
| GS-AP-MW-19 | | | | |
| Sample Date = 2/22/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 54.6 | 55.2 | 1.09% |
| Chloride | mg/L | 4.59 | 4.82 | 4.89% |
| Fluoride | mg/L | 0.259 | 0.24 | 7.62% |
| Sulfate | mg/L | 13.7 | 13.6 | 0.73% |
| Arsenic | mg/L | 0.00098 | 0.00081 | 18.20% |



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gorgas Ash Pond
02/09/2022 - 08/03/2022

| GS-AP-MW-19 | | | | |
|--------------------------------|--------------|------------------------|-------------------------|----------------|
| Sample Date = 2/22/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Barium | mg/L | 0.334 | 0.336 | 0.60% |
| Lithium | mg/L | 0.0266 | 0.0269 | 1.12% |
| Molybdenum | mg/L | 0.00267 | 0.0025 | 6.58% |
| GS-AP-MW-24H | | | | |
| Sample Date = 2/15/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 42.4 | 42.4 | 0.00% |
| Chloride | mg/L | 3.18 | 3.18 | 0.00% |
| Fluoride | mg/L | 0.176 | 0.172 | 2.30% |
| Sulfate | mg/L | 12.1 | 15.9 | 27.14% |
| Arsenic | mg/L | 0.00029 | 0.00033 | 10.97% |
| Barium | mg/L | 0.992 | 0.963 | 2.97% |
| Cobalt | mg/L | 0.00023 | 0.00024 | 3.42% |
| Lithium | mg/L | 0.0239 | 0.0238 | 0.42% |
| Molybdenum | mg/L | 0.00053 | 0.00048 | 10.34% |
| Sample Date = 7/27/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 41.9 | 41.4 | 1.20% |
| Chloride | mg/L | 3.3 | 3.28 | 0.61% |
| Fluoride | mg/L | 0.215 | 0.202 | 6.24% |
| Sulfate | mg/L | 6.24 | 6.54 | 4.70% |
| Arsenic | mg/L | 0.00022 | 0.00022 | 0.46% |
| Barium | mg/L | 1.01 | 1 | 1.00% |
| Cobalt | mg/L | 0.00029 | 0.0003 | 5.04% |
| Lithium | mg/L | 0.0253 | 0.0257 | 1.57% |
| Molybdenum | mg/L | 0.00055 | 0.00047 | 16.54% |
| GS-AP-MW-23H | | | | |
| Sample Date = 2/14/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 74.4 | 75.1 | 0.94% |
| Chloride | mg/L | 12.8 | 13 | 1.55% |
| Fluoride | mg/L | 0.14 | 0.127 | 9.74% |
| Sulfate | mg/L | 356 | 353 | 0.85% |
| Arsenic | mg/L | 0.061 | 0.0611 | 0.16% |



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gorgas Ash Pond
02/09/2022 - 08/03/2022

| GS-AP-MW-23H | | | | |
|--------------------------------|--------------|------------------------|-------------------------|----------------|
| Sample Date = 2/14/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Barium | mg/L | 0.0166 | 0.0177 | 6.41% |
| Cobalt | mg/L | 0.00052 | 0.00055 | 5.05% |
| Lithium | mg/L | 0.0306 | 0.0308 | 0.65% |
| Molybdenum | mg/L | 0.00097 | 0.00097 | 0.41% |
| GS-AP-MW-28H | | | | |
| Sample Date = 2/14/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 1.66 | 1.65 | 0.60% |
| Chloride | mg/L | 8.33 | 8.32 | 0.12% |
| Fluoride | mg/L | 0.121 | 0.152 | 22.71% |
| Sulfate | mg/L | 3.99 | 3.39 | 16.26% |
| Arsenic | mg/L | 0.00058 | 0.00054 | 7.66% |
| Barium | mg/L | 0.0483 | 0.0504 | 4.26% |
| Lithium | mg/L | 0.0551 | 0.0544 | 1.28% |
| Molybdenum | mg/L | 0.00481 | 0.0048 | 0.21% |
| GS-AP-MW-6S | | | | |
| Sample Date = 2/14/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Boron | mg/L | 0.978 | 0.984 | 0.61% |
| Calcium | mg/L | 60.1 | 54.8 | 9.23% |
| Chloride | mg/L | 20.6 | 20.5 | 0.49% |
| Fluoride | mg/L | 0.164 | 0.172 | 4.76% |
| Sulfate | mg/L | 115 | 120 | 4.26% |
| Arsenic | mg/L | 0.0106 | 0.0108 | 1.87% |
| Barium | mg/L | 0.097 | 0.096 | 1.04% |
| Cobalt | mg/L | 0.00065 | 0.00071 | 8.24% |
| Lithium | mg/L | 0.0625 | 0.0627 | 0.32% |
| Molybdenum | mg/L | 0.0411 | 0.0406 | 1.22% |
| Sample Date = 7/26/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Boron | mg/L | 1.11 | 1.12 | 0.90% |
| Calcium | mg/L | 51.8 | 52.2 | 0.77% |
| Chloride | mg/L | 22.9 | 22.8 | 0.44% |
| Fluoride | mg/L | 0.164 | 0.172 | 4.76% |



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gorgas Ash Pond
02/09/2022 - 08/03/2022

| GS-AP-MW-6S | | | | |
|--------------------------------|--------------|------------------------|-------------------------|----------------|
| Sample Date = 7/26/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Sulfate | mg/L | 106 | 109 | 2.79% |
| Arsenic | mg/L | 0.00935 | 0.00911 | 2.60% |
| Barium | mg/L | 0.0978 | 0.101 | 3.22% |
| Cobalt | mg/L | 0.00077 | 0.00073 | 4.66% |
| Lithium | mg/L | 0.0665 | 0.0679 | 2.08% |
| Molybdenum | mg/L | 0.0377 | 0.0396 | 4.92% |
| GS-AP-MW-35HO | | | | |
| Sample Date = 2/9/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 2.11 | 2.19 | 3.72% |
| Chloride | mg/L | 17.5 | 18 | 2.82% |
| Fluoride | mg/L | 0.119 | 0.122 | 2.49% |
| Sulfate | mg/L | 21.7 | 22.3 | 2.73% |
| Barium | mg/L | 0.0516 | 0.052 | 0.77% |
| Lithium | mg/L | 0.0673 | 0.0632 | 6.28% |
| Molybdenum | mg/L | 0.00175 | 0.00182 | 3.92% |
| GS-AP-MW-44HO | | | | |
| Sample Date = 2/9/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 1.16 | 1.21 | 4.22% |
| Chloride | mg/L | 28.5 | 28.9 | 1.39% |
| Fluoride | mg/L | 0.142 | 0.138 | 2.86% |
| Sulfate | mg/L | 27.7 | 30.3 | 8.97% |
| Arsenic | mg/L | 0.00035 | 0.00033 | 7.34% |
| Barium | mg/L | 0.0711 | 0.075 | 5.34% |
| Lithium | mg/L | 0.0478 | 0.0459 | 4.06% |
| Molybdenum | mg/L | 0.00348 | 0.00379 | 8.53% |
| Sample Date = 7/20/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Calcium | mg/L | 1.26 | 1.29 | 2.35% |
| Chloride | mg/L | 30.1 | 29.5 | 2.01% |
| Fluoride | mg/L | 0.146 | 0.149 | 2.03% |
| Sulfate | mg/L | 27 | 28.9 | 6.80% |
| Arsenic | mg/L | 0.0004 | 0.00044 | 9.95% |



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Gorgas Ash Pond
02/09/2022 - 08/03/2022

| GS-AP-MW-44HO | | | | |
|-------------------------|-------|-----------------|------------------|---------|
| Sample Date = 7/20/2022 | | | | |
| Analyte | Units | Original Result | Duplicate Result | RPD (%) |
| Barium | mg/L | 0.0697 | 0.0684 | 1.88% |
| Lithium | mg/L | 0.0529 | 0.054 | 2.06% |
| Molybdenum | mg/L | 0.00349 | 0.00328 | 6.20% |

Notes:

1. The RPD calculations presented are for analyte pairs where original and duplicate results are valid, unqualified detections.
2. RPD calculation results less than or equal to 20% are considered acceptable.
3. Results greater than 20% are given data validation flags to indicate RPD criteria failure. Communication to sampling team and lab may be necessary to explore nature of RPD failure(s).



Table 4b. - Field QC: Blank Detections

Plant Gorgas Ash Pond
02/09/2022 - 08/10/2022

| Parameters Detected Above MDL | | | | | |
|-------------------------------|-------------|-----------|---------------------|-------|--------|
| Sample Date | QC Location | Parameter | Blank Concentration | Units | MDL |
| 02/16/2022 | FB-1 | Arsenic | 7E-05 J | mg/L | 7E-05 |
| 02/23/2022 | FB-5 | Barium | 0.00017 J | mg/L | 0.0001 |
| 08/10/2022 | FB-6 | Chromium | 0.00022 J | mg/L | 0.0002 |
| 08/09/2022 | FB-5 | Chromium | 0.0003 J | mg/L | 0.0002 |
| 08/09/2022 | EB-1 | Chromium | 0.00032 J | mg/L | 0.0002 |
| 07/27/2022 | FB-4 | Chromium | 0.00028 J | mg/L | 0.0002 |
| 07/26/2022 | FB-3 | Chromium | 0.0003 J | mg/L | 0.0002 |
| 07/26/2022 | EB-1 | Chromium | 0.00033 J | mg/L | 0.0002 |
| 07/26/2022 | FB-1 | Chromium | 0.00022 J | mg/L | 0.0002 |
| 07/20/2022 | FB-2 | Chromium | 0.00031 J | mg/L | 0.0002 |
| 07/20/2022 | EB-1 | Chromium | 0.00026 J | mg/L | 0.0002 |
| 07/20/2022 | FB-1 | Chromium | 0.00029 J | mg/L | 0.0002 |
| 07/19/2022 | FB-1 | Chromium | 0.00036 J | mg/L | 0.0002 |
| 03/01/2022 | EB-1 | Chromium | 0.00021 J | mg/L | 0.0002 |
| 02/15/2022 | FB-2 | Chromium | 0.00026 J | mg/L | 0.0002 |
| 02/14/2022 | FB-3 | Chromium | 0.00021 J | mg/L | 0.0002 |
| 02/09/2022 | EB-1 | Chromium | 0.00022 J | mg/L | 0.0002 |
| 02/09/2022 | EB-1 | Chromium | 0.00023 J | mg/L | 0.0002 |
| 02/09/2022 | FB-1 | Chromium | 0.0003 J | mg/L | 0.0002 |
| 02/09/2022 | FB-1 | Chromium | 0.00026 J | mg/L | 0.0002 |

Notes:

1. Lab qualifiers have been appended to result when applicable
2. MDL = Method Detection Limit
3. Only Appendix 4 Constituents were compared and validated. Radium data was not validated.
4. mg/L = milligrams per liter



Table 5. Summary of Background Levels and Groundwater Protection Standards

Plant Gorgas Ash Pond

| Appendix IV Analytes | | | |
|---------------------------|-------|------------|--------|
| Analyte | Units | Background | GWPS |
| Antimony | mg/L | 0.00115 | 0.006 |
| Arsenic | mg/L | 0.00214 | 0.01 |
| Barium | mg/L | 0.353 | 2 |
| Beryllium | mg/L | 0.001015 | 0.004 |
| Cadmium | mg/L | 0.000203 | 0.005 |
| Chromium | mg/L | 0.00405 | 0.1 |
| Cobalt | mg/L | 0.00362 | 0.01 |
| Fluoride | mg/L | 0.278 | 4 |
| Lead | mg/L | 0.00189 | 0.015 |
| Lithium | mg/L | 0.0809 | 0.0809 |
| Mercury | mg/L | 0.0005 | 0.002 |
| Molybdenum | mg/L | 0.00906 | 0.1 |
| Selenium | mg/L | 0.001015 | 0.05 |
| Thallium | mg/L | 0.000203 | 0.002 |
| Combined Radium 226 + 228 | pCi/L | 7.76 | 5 |

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. Background concentrations/limits are used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and ADEM Rule 335-13-15-.06(h).
4. GWPS are generally updated on a 2 year basis which began in the Fall of 2019 (Fall 2019, Fall 2021, etc).

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022

| Field Parameters | | | | | | | | |
|--------------------|---------------|-------------|---------------|---------------------|-------------|---------|--------------------|---------|
| Hydraulic Location | Well | Sample Date | Turbidity NTU | Field Temperature C | pH_Field SU | DO mg/L | Conductivity uS/cm | ORP mv |
| Upgradient | GS-AP-MW-17V | 02/14/2022 | 1.86 | 16.84 | 7.43 | 0.54 | 533.41 | -127.99 |
| Upgradient | GS-AP-MW-8 | 02/16/2022 | 2.6 | 19.92 | 5.8 | 0.72 | 142.9 | 200.76 |
| Downgradient | GS-AP-MW-10R | 03/01/2022 | 4.41 | 18.32 | 6.87 | 0.46 | 503.13 | -96.67 |
| Downgradient | GS-AP-MW-11R | 03/01/2022 | 7.38 | 17.12 | 6.68 | 0.22 | 382.55 | -54.74 |
| Downgradient | GS-AP-MW-12 | 02/28/2022 | 1.45 | 18.79 | 8.12 | 0.51 | 342.75 | -183.55 |
| Downgradient | GS-AP-MW-12V | 02/23/2022 | 9.83 | 17.55 | 7.73 | 0.66 | 309.69 | -168.6 |
| Downgradient | GS-AP-MW-13R | 03/01/2022 | 4.34 | 15.21 | 6.47 | 0.74 | 341.37 | -31.02 |
| Downgradient | GS-AP-MW-14R | 02/28/2022 | 3.89 | 16.41 | 7.04 | 0.81 | 492.21 | -108.05 |
| Downgradient | GS-AP-MW-15 | 02/16/2022 | 1.11 | 18.35 | 11.57 | 0.93 | 841.02 | -202.12 |
| Downgradient | GS-AP-MW-15V | 02/16/2022 | 1.71 | 19.25 | 8.65 | 1.22 | 1398.52 | -110.61 |
| Downgradient | GS-AP-MW-16D | 02/15/2022 | 4.56 | 18.04 | 7.48 | 0.8 | 344.55 | -72.79 |
| Downgradient | GS-AP-MW-17 | 02/14/2022 | 2.15 | 17.11 | 8.32 | 0.33 | 723.19 | -155.72 |
| Downgradient | GS-AP-MW-18R | 02/22/2022 | 4.74 | 17.31 | 6.29 | 0.29 | 198.06 | -36.96 |
| Downgradient | GS-AP-MW-18VR | 02/22/2022 | 3.16 | 17.35 | 7.88 | 0.71 | 482.09 | -164.83 |
| Downgradient | GS-AP-MW-19 | 02/22/2022 | 0.82 | 18.62 | 7.71 | 0.24 | 597.93 | -149.62 |
| Downgradient | GS-AP-MW-1R | 03/01/2022 | 6.37 | 15.83 | 8.86 | 0.36 | 469.21 | -202.87 |
| Downgradient | GS-AP-MW-2 | 02/22/2022 | 1.62 | 19.12 | 9.42 | 0.98 | 578.43 | -162.68 |
| Downgradient | GS-AP-MW-21 | 02/08/2022 | 0.78 | 16.93 | 10.26 | 0.74 | 1038.26 | -206.64 |
| Downgradient | GS-AP-MW-21V | 02/08/2022 | 4.76 | 17.18 | 7.98 | 0.52 | 2592.81 | -142.8 |
| Downgradient | GS-AP-MW-3 | 02/16/2022 | 1.12 | 18.66 | 7.78 | 0.52 | 482.31 | -142.54 |

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022

| Field Parameters | | | | | | | | |
|--------------------|---------------|-------------|---------------|---------------------|-------------|---------|--------------------|---------|
| Hydraulic Location | Well | Sample Date | Turbidity NTU | Field Temperature C | pH_Field SU | DO mg/L | Conductivity uS/cm | ORP mv |
| Downgradient | GS-AP-MW-3V | 02/23/2022 | 3.14 | 16.16 | 7.45 | 1.02 | 1813.51 | -109.3 |
| Downgradient | GS-AP-MW-45V | 02/23/2022 | 4.16 | 16.32 | 7.86 | 0.7 | 1139.43 | -189.04 |
| Downgradient | GS-AP-MW-46 | 02/23/2022 | 0.71 | 17.16 | 8.69 | 0.37 | 962.02 | -292.59 |
| Downgradient | GS-AP-MW-47 | 02/28/2022 | 2.37 | 16.89 | 7.15 | 0.32 | 321.01 | -93.29 |
| Downgradient | GS-AP-MW-5R | 03/01/2022 | 1.38 | 17.49 | 6.77 | 0.28 | 1113.2 | -229.33 |
| Downgradient | GS-AP-MW-6D | 02/14/2022 | 0.95 | 17.83 | 7.43 | 0.13 | 460.9 | -158.06 |
| Downgradient | GS-AP-MW-6S | 02/14/2022 | 4.99 | 16.98 | 6.99 | 1.33 | 480.16 | -67.79 |
| Downgradient | GS-AP-MW-7 | 02/08/2022 | 18.9 | 18.93 | 7.71 | 0.37 | 522.4 | -143.55 |
| Downgradient | GS-AP-MW-9R | 03/01/2022 | 1.76 | 19.28 | 6.4 | 0.32 | 717.38 | -31.47 |
| Downgradient | GS-AP-MW-9V | 02/21/2022 | 0.87 | 20.16 | 7 | 1.65 | 544.18 | -121.26 |
| Vert. Delineation | GS-AP-MW-23V | 02/23/2022 | 9.26 | 16.71 | 7.38 | 0.38 | 986.95 | -226.73 |
| Vert. Delineation | GS-AP-MW-31V | 02/22/2022 | 3.06 | 18.03 | 8 | 0.48 | 674.7 | -193.67 |
| Vert. Delineation | GS-AP-MW-36V | 02/22/2022 | 2.6 | 17.26 | 7.35 | 0.69 | 812.78 | -139.53 |
| Vert. Delineation | GS-AP-MW-6V | 02/09/2022 | 9.35 | 21.5 | 8.8 | 0.71 | 1404.56 | -136.46 |
| Vert. Delineation | GS-AP-PZ-16 | 02/15/2022 | 3.18 | 17.09 | 9.34 | 0.95 | 595.35 | -121.72 |
| Vert. Delineation | GS-AP-PZ-18R | 02/21/2022 | 1.64 | 15.22 | 7.37 | 0.44 | 483.33 | -107.95 |
| Vert. Delineation | GS-AP-PZ-22 | 02/14/2022 | 1.98 | 17.01 | 7.4 | 0.36 | 714.25 | -150.77 |
| Horiz. Delineation | GS-AP-MW-23H | 02/14/2022 | 1.88 | 17.86 | 5.8 | 0.64 | 770.3 | -1.79 |
| Horiz. Delineation | GS-AP-MW-24H | 02/15/2022 | 2.66 | 17.63 | 7 | 0.14 | 432.15 | -85.46 |
| Horiz. Delineation | GS-AP-MW-25HA | 02/16/2022 | 2.96 | 20.83 | 8.5 | 1.48 | 1455.75 | -284.35 |

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022

| Field Parameters | | | | | | | | |
|--------------------|---------------|-------------|---------------|---------------------|-------------|---------|--------------------|---------|
| Hydraulic Location | Well | Sample Date | Turbidity NTU | Field Temperature C | pH_Field SU | DO mg/L | Conductivity uS/cm | ORP mv |
| Horiz. Delineation | GS-AP-MW-26H | 02/15/2022 | 1.88 | 19.45 | 6.82 | 0.33 | 485.8 | -85.1 |
| Horiz. Delineation | GS-AP-MW-27HR | 02/22/2022 | 2.34 | 17.13 | 7.83 | 0.29 | 2186.31 | -210.32 |
| Horiz. Delineation | GS-AP-MW-28H | 02/14/2022 | 0.64 | 17.17 | 8.37 | 0.35 | 646.75 | -187.54 |
| Horiz. Delineation | GS-AP-MW-29H | 02/14/2022 | 0.77 | 16.75 | 7.77 | 0.37 | 595.98 | -190.56 |
| Horiz. Delineation | GS-AP-MW-30HA | 02/08/2022 | 4.94 | 14.98 | 7.35 | 0.5 | 945.82 | -113.51 |
| Horiz. Delineation | GS-AP-MW-31H | 02/08/2022 | 1.16 | 16.02 | 8.53 | 0.6 | 478.43 | -208.42 |
| Horiz. Delineation | GS-AP-MW-32H | 02/14/2022 | 1.72 | 16.24 | 8.22 | 0.96 | 592.54 | -188.81 |
| Horiz. Delineation | GS-AP-MW-33HO | 02/09/2022 | 1.92 | 15.19 | 7.64 | 0.48 | 832.18 | -130.85 |
| Horiz. Delineation | GS-AP-MW-34HO | 02/09/2022 | 3.96 | 18.05 | 7.4 | 0.45 | 4534.67 | -179.18 |
| Horiz. Delineation | GS-AP-MW-35HO | 02/09/2022 | 1.98 | 17.16 | 8.55 | 0.85 | 545.36 | -143.97 |
| Horiz. Delineation | GS-AP-MW-36H | 02/14/2022 | 2.2 | 18.68 | 8.22 | 0.83 | 897.68 | -137.66 |
| Horiz. Delineation | GS-AP-MW-37HR | 02/28/2022 | 2.79 | 17.36 | 7.88 | 0.38 | 497.92 | -160.89 |
| Horiz. Delineation | GS-AP-MW-38H | 02/22/2022 | 1.62 | 19.14 | 7.89 | 0.36 | 741.45 | -152.07 |
| Horiz. Delineation | GS-AP-MW-40H | 02/15/2022 | 3.7 | 20.14 | 6.6 | 1.52 | 1614.47 | -9.09 |
| Horiz. Delineation | GS-AP-MW-41HD | 02/15/2022 | 0.86 | 15.98 | 7.35 | 0.21 | 495.04 | 7.04 |
| Horiz. Delineation | GS-AP-MW-41HS | 02/08/2022 | 1.3 | 18.84 | 6.66 | 2.25 | 429.61 | -2.04 |
| Horiz. Delineation | GS-AP-MW-42H | 02/16/2022 | 4.98 | 18.59 | 6.54 | 0.14 | 1038.72 | -16.06 |
| Horiz. Delineation | GS-AP-MW-43HO | 02/21/2022 | 3.34 | 13.34 | 8.58 | 1.23 | 1416.64 | -282.26 |
| Horiz. Delineation | GS-AP-MW-44HO | 02/09/2022 | 0.76 | 16.84 | 8.94 | 0.32 | 690.93 | -295.39 |
| Piezometer | GS-AP-MW-16S | 02/15/2022 | 1.3 | 17.44 | 11.52 | 2.33 | 3597.32 | -112.74 |

Notes:

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022

| EPA Appendix III Set | | | | | | | | |
|----------------------|---------------|-------------|------------|--------------|---------------|---------------|-------------|--------------|
| Hydraulic Location | Well | Sample Date | Boron mg/L | Calcium mg/L | Chloride mg/L | Fluoride mg/L | pH_Field SU | Sulfate mg/L |
| Upgradient | GS-AP-MW-17V | 02/14/2022 | 0.0386 J | 30.1 | 3.26 | 0.237 | 7.43 | 9.09 |
| Upgradient | GS-AP-MW-8 | 02/16/2022 | <0.03 | 4.42 | 4.42 | 0.0616 J | 5.8 | 4.68 |
| Downgradient | GS-AP-MW-10R | 03/01/2022 | <0.03 | 39.8 | 37.5 | 0.278 | 6.87 | 21.6 |
| Downgradient | GS-AP-MW-11R | 03/01/2022 | 0.0844 J | 45.3 | 5.08 | 0.143 | 6.68 | 39.4 |
| Downgradient | GS-AP-MW-12 | 02/28/2022 | 0.0305 J | 37.9 | 3.34 | 0.12 | 8.12 | 17.9 |
| Downgradient | GS-AP-MW-12V | 02/23/2022 | <0.03 | 46.3 | 3.83 | 0.153 | 7.73 | 0.741 J |
| Downgradient | GS-AP-MW-13R | 03/01/2022 | <0.03 | 31.6 | 19.2 | 0.122 | 6.47 | 38 |
| Downgradient | GS-AP-MW-14R | 02/28/2022 | <0.03 | 33.7 | 38.1 | 0.215 | 7.04 | 33.3 |
| Downgradient | GS-AP-MW-15 | 02/16/2022 | 0.0323 J | 6.76 | 5.86 | 0.349 | 11.57 | 7.37 |
| Downgradient | GS-AP-MW-15V | 02/16/2022 | 0.0594 J | 14.3 | 129 | 0.208 | 8.65 | 224 |
| Downgradient | GS-AP-MW-16D | 02/15/2022 | <0.03 | 31.5 | 3.58 | 0.114 | 7.48 | 14.7 |
| Downgradient | GS-AP-MW-17 | 02/14/2022 | 0.073 J | 2.17 | 7.15 | 0.206 | 8.32 | 14.4 |
| Downgradient | GS-AP-MW-18R | 02/22/2022 | <0.03 | 20.3 | 3.52 | 0.124 | 6.29 | 27 |
| Downgradient | GS-AP-MW-18VR | 02/22/2022 | 0.0488 J | 5.8 | 15.3 | 0.199 | 7.88 | 13 |
| Downgradient | GS-AP-MW-19 | 02/22/2022 | <0.03 | 54.6 | 4.59 | 0.259 | 7.71 | 13.7 |
| Downgradient | GS-AP-MW-1R | 03/01/2022 | 0.0582 J | 1.14 | 5.25 | 0.248 | 8.86 | 5.88 |
| Downgradient | GS-AP-MW-2 | 02/22/2022 | 0.112 | 0.413 | 6.05 | 0.819 | 9.42 | 17.1 |
| Downgradient | GS-AP-MW-21 | 02/08/2022 | 0.111 | 1.98 | 41.4 | 0.175 | 10.26 | 241 |
| Downgradient | GS-AP-MW-21V | 02/08/2022 | 0.0938 J | 37.2 | 432 | 0.398 | 7.98 | 451 |
| Downgradient | GS-AP-MW-3 | 02/16/2022 | 0.311 | 18.6 | 14 | <0.06 | 7.78 | 91.2 |
| Downgradient | GS-AP-MW-3V | 02/23/2022 | 0.109 | 9.73 | 155 | 0.241 | 7.45 | 370 |

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022

| EPA Appendix III Set | | | | | | | | |
|----------------------|---------------|-------------|------------|--------------|---------------|---------------|-------------|--------------|
| Hydraulic Location | Well | Sample Date | Boron mg/L | Calcium mg/L | Chloride mg/L | Fluoride mg/L | pH_Field SU | Sulfate mg/L |
| Downgradient | GS-AP-MW-45V | 02/23/2022 | 0.038 J | 5.61 | 54.2 | 0.204 | 7.86 | 273 |
| Downgradient | GS-AP-MW-46 | 02/23/2022 | 0.768 | 1.2 | 43.9 | 0.226 | 8.69 | 317 |
| Downgradient | GS-AP-MW-47 | 02/28/2022 | <0.03 | 28.7 | 11.7 | 0.121 | 7.15 | 14.4 |
| Downgradient | GS-AP-MW-5R | 03/01/2022 | 0.036 J | 97.3 | 46.4 | 0.147 | 6.77 | 348 |
| Downgradient | GS-AP-MW-6D | 02/14/2022 | 1.29 | 55.7 | 11.7 | 0.108 | 7.43 | 58.3 |
| Downgradient | GS-AP-MW-6S | 02/14/2022 | 0.978 | 60.1 | 20.6 | 0.164 | 6.99 | 115 |
| Downgradient | GS-AP-MW-7 | 02/08/2022 | 1.69 | 10.7 | 7.45 | 0.0799 J | 7.71 | 138 |
| Downgradient | GS-AP-MW-9R | 03/01/2022 | 0.106 | 54 | 65.9 | 0.218 | 6.4 | 104 |
| Downgradient | GS-AP-MW-9V | 02/21/2022 | 0.0349 J | 47.7 | 18.4 | 0.177 | 7 | 32.4 |
| Vert. Delineation | GS-AP-MW-23V | 02/23/2022 | 0.0919 J | 152 | 3.21 | 0.141 | 7.38 | 331 |
| Vert. Delineation | GS-AP-MW-31V | 02/22/2022 | <0.03 | 7.58 | 32.1 | 0.179 | 8 | 26.2 |
| Vert. Delineation | GS-AP-MW-36V | 02/22/2022 | 0.0402 J | 9.42 | 55.9 | 0.259 | 7.35 | 53.9 |
| Vert. Delineation | GS-AP-MW-6V | 02/09/2022 | 0.101 J | 1.29 | 53.3 | 4.35 | 8.8 | 8.6 |
| Vert. Delineation | GS-AP-PZ-16 | 02/15/2022 | 0.0781 J | 11.5 | 5.84 | 0.258 | 9.34 | 23.1 |
| Vert. Delineation | GS-AP-PZ-18R | 02/21/2022 | 0.0925 J | 69 | 5.32 | 0.207 | 7.37 | 55.5 |
| Vert. Delineation | GS-AP-PZ-22 | 02/14/2022 | 0.047 J | 18.1 | 3.1 | 0.422 | 7.4 | 91.1 |
| Horiz. Delineation | GS-AP-MW-23H | 02/14/2022 | 0.035 J | 74.4 | 12.8 | 0.14 | 5.8 | 356 |
| Horiz. Delineation | GS-AP-MW-24H | 02/15/2022 | 0.0708 J | 42.4 | 3.18 | 0.176 | 7 | 12.1 |
| Horiz. Delineation | GS-AP-MW-25HA | 02/16/2022 | 0.145 | 1.82 | 34.3 | 1.89 | 8.5 | 130 |
| Horiz. Delineation | GS-AP-MW-26H | 02/15/2022 | <0.03 | 26.6 | 2.59 | 0.101 | 6.82 | 7.16 |
| Horiz. Delineation | GS-AP-MW-27HR | 02/22/2022 | 0.0541 J | 12.3 | 253 | 0.292 | 7.83 | 268 |

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- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022

| EPA Appendix III Set | | | | | | | | |
|----------------------|---------------|-------------|------------|--------------|---------------|---------------|-------------|--------------|
| Hydraulic Location | Well | Sample Date | Boron mg/L | Calcium mg/L | Chloride mg/L | Fluoride mg/L | pH_Field SU | Sulfate mg/L |
| Horiz. Delineation | GS-AP-MW-28H | 02/14/2022 | 0.0706 J | 1.66 | 8.33 | 0.121 | 8.37 | 3.99 |
| Horiz. Delineation | GS-AP-MW-29H | 02/14/2022 | 0.542 | 13.9 | 14.2 | 0.332 | 7.77 | 49.7 |
| Horiz. Delineation | GS-AP-MW-30HA | 02/08/2022 | 0.0654 J | 46.7 | 5.81 | 1.66 | 7.35 | 215 |
| Horiz. Delineation | GS-AP-MW-31H | 02/08/2022 | <0.03 | 5.73 | 32.5 | 0.119 | 8.53 | 29.5 |
| Horiz. Delineation | GS-AP-MW-32H | 02/14/2022 | 0.0443 J | 2.53 | 29.8 | 0.148 | 8.22 | 38.4 |
| Horiz. Delineation | GS-AP-MW-33HO | 02/09/2022 | 0.0416 J | 25.2 | 68.9 | 0.131 | 7.64 | 77.8 |
| Horiz. Delineation | GS-AP-MW-34HO | 02/09/2022 | 0.106 | 105 | 392 | 0.291 | 7.4 | 1570 |
| Horiz. Delineation | GS-AP-MW-35HO | 02/09/2022 | <0.03 | 2.11 | 17.5 | 0.119 | 8.55 | 21.7 |
| Horiz. Delineation | GS-AP-MW-36H | 02/14/2022 | 0.0467 J | 4.69 | 77.7 | 0.238 | 8.22 | 112 |
| Horiz. Delineation | GS-AP-MW-37HR | 02/28/2022 | <0.03 | 2.59 | 28.1 | 0.194 | 7.88 | 22.6 |
| Horiz. Delineation | GS-AP-MW-38H | 02/22/2022 | 0.0452 J | 10.8 | 31 | 0.239 | 7.89 | 27.9 |
| Horiz. Delineation | GS-AP-MW-40H | 02/15/2022 | 0.0321 J | 203 | 18 | 0.0854 J | 6.6 | 684 |
| Horiz. Delineation | GS-AP-MW-41HD | 02/15/2022 | 1.52 | 57.6 | 6.67 | 0.125 | 7.35 | 110 |
| Horiz. Delineation | GS-AP-MW-41HS | 02/08/2022 | 1.04 | 30.6 | 6.72 | 0.117 | 6.66 | 105 |
| Horiz. Delineation | GS-AP-MW-42H | 02/16/2022 | 0.0502 J | 138 | 8.61 | 0.0837 J | 6.54 | 396 |
| Horiz. Delineation | GS-AP-MW-43HO | 02/21/2022 | 0.13 | 4.56 | 104 | 0.226 | 8.58 | 347 |
| Horiz. Delineation | GS-AP-MW-44HO | 02/09/2022 | 0.0429 J | 1.16 | 28.5 | 0.142 | 8.94 | 27.7 |
| Piezometer | GS-AP-MW-16S | 02/15/2022 | <0.03 | 93.6 | 4.03 | 0.151 | 11.52 | 6.47 |

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022

| EPA Appendix IV Set | | | | | | | | | | |
|---------------------|---------------|-------------|---------------|--------------|-------------|----------------|--------------|---------------|-------------|---------------|
| Hydraulic Location | Well | Sample Date | Antimony mg/L | Arsenic mg/L | Barium mg/L | Beryllium mg/L | Cadmium mg/L | Chromium mg/L | Cobalt mg/L | Fluoride mg/L |
| Upgradient | GS-AP-MW-17V | 02/14/2022 | <0.000508 | 0.000469 | 0.315 | <0.000406 | <6.8e-005 | 0.000205 J | <6.8e-005 | 0.237 |
| Upgradient | GS-AP-MW-8 | 02/16/2022 | <0.000508 | 0.000278 | 0.00763 | <0.000406 | <6.8e-005 | 0.000396 J | 0.000548 | 0.0616 J |
| Downgradient | GS-AP-MW-10R | 03/01/2022 | <0.000508 | 0.00209 | 0.701 | <0.000406 | <6.8e-005 | 0.000237 J | 0.00014 J | 0.278 |
| Downgradient | GS-AP-MW-11R | 03/01/2022 | <0.000508 | 0.00235 | 0.107 | <0.000406 | <6.8e-005 | 0.000257 J | 0.00011 J | 0.143 |
| Downgradient | GS-AP-MW-12 | 02/28/2022 | 0.00415 | 0.00343 | 0.173 | <0.000406 | <6.8e-005 | <0.000203 | <6.8e-005 | 0.12 |
| Downgradient | GS-AP-MW-12V | 02/23/2022 | 0.000555 J | 0.00102 | 1.34 | <0.000406 | <6.8e-005 | 0.000607 J | 0.000127 J | 0.153 |
| Downgradient | GS-AP-MW-13R | 03/01/2022 | <0.000508 | 0.011 | 0.0617 | <0.000406 | <6.8e-005 | 0.000229 J | <6.8e-005 | 0.122 |
| Downgradient | GS-AP-MW-14R | 02/28/2022 | <0.000508 | 0.00231 | 0.174 | <0.000406 | <6.8e-005 | 0.000616 J | 0.000147 J | 0.215 |
| Downgradient | GS-AP-MW-15 | 02/16/2022 | 0.000778 J | 0.00592 | 0.271 | <0.000406 | <6.8e-005 | 0.000485 J | <6.8e-005 | 0.349 |
| Downgradient | GS-AP-MW-15V | 02/16/2022 | 0.00113 | 0.0081 | 0.2 | <0.000406 | <6.8e-005 | 0.000622 J | <6.8e-005 | 0.208 |
| Downgradient | GS-AP-MW-16D | 02/15/2022 | <0.000508 | 0.000117 J | 0.322 | <0.000406 | <6.8e-005 | 0.000249 J | <6.8e-005 | 0.114 |
| Downgradient | GS-AP-MW-17 | 02/14/2022 | <0.000508 | 0.00112 | 0.0945 | <0.000406 | <6.8e-005 | 0.000337 J | <6.8e-005 | 0.206 |
| Downgradient | GS-AP-MW-18R | 02/22/2022 | <0.000508 | 0.000367 | 0.0716 | <0.000406 | <6.8e-005 | 0.000221 J | 0.000659 | 0.124 |
| Downgradient | GS-AP-MW-18VR | 02/22/2022 | <0.000508 | 0.00164 | 0.187 | <0.000406 | <6.8e-005 | 0.000522 J | 9.32e-005 J | 0.199 |
| Downgradient | GS-AP-MW-19 | 02/22/2022 | <0.000508 | 0.000977 | 0.334 | <0.000406 | <6.8e-005 | <0.000203 | <6.8e-005 | 0.259 |
| Downgradient | GS-AP-MW-1R | 03/01/2022 | <0.000508 | 0.000382 | 0.072 | <0.000406 | <6.8e-005 | 0.000443 J | 8.77e-005 J | 0.248 |
| Downgradient | GS-AP-MW-2 | 02/22/2022 | <0.000508 | <6.8e-005 | 0.0501 | <0.000406 | <6.8e-005 | 0.000443 J | <6.8e-005 | 0.819 |
| Downgradient | GS-AP-MW-21 | 02/08/2022 | <0.000508 | 0.000459 | 0.143 | <0.000406 | <6.8e-005 | 0.000401 J | <6.8e-005 | 0.175 |
| Downgradient | GS-AP-MW-21V | 02/08/2022 | <0.000508 | 0.00551 | 0.0631 | <0.000406 | <6.8e-005 | 0.00041 J | <6.8e-005 | 0.398 |

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- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 02/08/2022 - 05/11/2022

| EPA Appendix IV Set | | | | | | | | | |
|---------------------|---------------|-------------|-------------|--------------|--------------|-----------------|---------------|---------------|---------------------------------|
| Hydraulic Location | Well | Sample Date | Lead mg/L | Lithium mg/L | Mercury mg/L | Molybdenum mg/L | Selenium mg/L | Thallium mg/L | Combined Radium 226 + 228 pCi/L |
| Upgradient | GS-AP-MW-17V | 02/14/2022 | <6.8e-005 | 0.0499 | <0.0003 | 0.00276 | <0.000508 | <6.8e-005 | 7.76 |
| Upgradient | GS-AP-MW-8 | 02/16/2022 | <6.8e-005 | 0.00826 J | <0.0003 | 0.000118 J | <0.000508 | <6.8e-005 | 0.561 U |
| Downgradient | GS-AP-MW-10R | 03/01/2022 | 0.000134 J | 0.0349 | <0.0003 | 0.00288 | <0.000508 | <6.8e-005 | 1.05 U |
| Downgradient | GS-AP-MW-11R | 03/01/2022 | <6.8e-005 | 0.0281 | <0.0003 | 0.000143 J | <0.000508 | <6.8e-005 | 0.757 U |
| Downgradient | GS-AP-MW-12 | 02/28/2022 | <6.8e-005 | 0.0523 | <0.0003 | 0.00903 | <0.000508 | <6.8e-005 | 0.725 U |
| Downgradient | GS-AP-MW-12V | 02/23/2022 | 0.00019 J | 0.0279 | <0.0003 | 0.00144 | <0.000508 | <6.8e-005 | 1.3 |
| Downgradient | GS-AP-MW-13R | 03/01/2022 | 0.000128 J | 0.0272 | <0.0003 | 0.000611 | <0.000508 | <6.8e-005 | 0.656 U |
| Downgradient | GS-AP-MW-14R | 02/28/2022 | 0.000446 | 0.0228 | <0.0003 | 0.000965 | <0.000508 | <6.8e-005 | 0.801 U |
| Downgradient | GS-AP-MW-15 | 02/16/2022 | <6.8e-005 | 0.263 | <0.0003 | 0.0306 | <0.000508 | <6.8e-005 | 0.234 U |
| Downgradient | GS-AP-MW-15V | 02/16/2022 | <6.8e-005 | 0.0788 | <0.0003 | 0.0272 | <0.000508 | <6.8e-005 | 0.841 U |
| Downgradient | GS-AP-MW-16D | 02/15/2022 | <6.8e-005 | 0.033 | <0.0003 | 0.000322 | <0.000508 | <6.8e-005 | 0.557 U |
| Downgradient | GS-AP-MW-17 | 02/14/2022 | <6.8e-005 | 0.0572 | <0.0003 | 0.00252 | <0.000508 | <6.8e-005 | 0.523 U |
| Downgradient | GS-AP-MW-18R | 02/22/2022 | 8.09e-005 J | <0.007105 | <0.0003 | 0.000283 | <0.000508 | <6.8e-005 | 0.961 U |
| Downgradient | GS-AP-MW-18VR | 02/22/2022 | 8.95e-005 J | 0.0446 | <0.0003 | 0.0336 | <0.000508 | <6.8e-005 | 0.187 U |
| Downgradient | GS-AP-MW-19 | 02/22/2022 | <6.8e-005 | 0.0266 | <0.0003 | 0.00267 | <0.000508 | <6.8e-005 | 0.639 U |
| Downgradient | GS-AP-MW-1R | 03/01/2022 | 0.000221 | 0.0309 | <0.0003 | 0.00143 | <0.000508 | <6.8e-005 | 0.836 U |
| Downgradient | GS-AP-MW-2 | 02/22/2022 | <6.8e-005 | 0.0354 | <0.0003 | 0.00327 | <0.000508 | <6.8e-005 | 0.21 U |
| Downgradient | GS-AP-MW-21 | 02/08/2022 | <6.8e-005 | 0.0996 | <0.0003 | 0.0153 | <0.000508 | <6.8e-005 | 0.529 U |
| Downgradient | GS-AP-MW-21V | 02/08/2022 | <6.8e-005 | 0.0835 | <0.0003 | 0.0819 | <0.000508 | <6.8e-005 | 0.467 U |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 02/08/2022 - 05/11/2022

| EPA Appendix IV Set | | | | | | | | | | |
|---------------------|--------------|-------------|---------------|--------------|-------------|----------------|--------------|---------------|-------------|---------------|
| Hydraulic Location | Well | Sample Date | Antimony mg/L | Arsenic mg/L | Barium mg/L | Beryllium mg/L | Cadmium mg/L | Chromium mg/L | Cobalt mg/L | Fluoride mg/L |
| Downgradient | GS-AP-MW-3 | 02/16/2022 | <0.000508 | 0.000202 J | 0.498 | <0.000406 | <6.8e-005 | 0.000267 J | <6.8e-005 | <0.06 |
| Downgradient | GS-AP-MW-3V | 02/23/2022 | <0.000508 | 0.00249 | 0.0486 | <0.000406 | <6.8e-005 | 0.000509 J | 0.00025 | 0.241 |
| Downgradient | GS-AP-MW-45V | 02/23/2022 | <0.000508 | 0.00106 | 0.0207 | <0.000406 | <6.8e-005 | 0.000204 J | <6.8e-005 | 0.204 |
| Downgradient | GS-AP-MW-46 | 02/23/2022 | <0.000508 | 0.105 | 0.0652 | <0.000406 | <6.8e-005 | <0.000203 | <6.8e-005 | 0.226 |
| Downgradient | GS-AP-MW-47 | 02/28/2022 | <0.000508 | 0.000385 | 0.772 | <0.000406 | <6.8e-005 | 0.000331 J | 0.000118 J | 0.121 |
| Downgradient | GS-AP-MW-5R | 03/01/2022 | <0.000508 | 0.000484 | 0.0695 | <0.000406 | <6.8e-005 | 0.000353 J | <6.8e-005 | 0.147 |
| Downgradient | GS-AP-MW-6D | 02/14/2022 | <0.000508 | 0.12 | 0.599 | <0.000406 | <6.8e-005 | 0.000243 J | <6.8e-005 | 0.108 |
| Downgradient | GS-AP-MW-6S | 02/14/2022 | 0.00071 J | 0.0106 | 0.097 | <0.000406 | <6.8e-005 | 0.000259 J | 0.000652 | 0.164 |
| Downgradient | GS-AP-MW-7 | 02/08/2022 | <0.000508 | 0.281 | 0.0747 | <0.000406 | <6.8e-005 | 0.00103 | 0.000507 | 0.0799 J |
| Downgradient | GS-AP-MW-9R | 03/01/2022 | <0.000508 | 0.00529 | 0.0425 | <0.000406 | <6.8e-005 | 0.000269 J | 9.26e-005 J | 0.218 |
| Downgradient | GS-AP-MW-9V | 02/21/2022 | <0.000508 | 0.000209 | 0.161 | <0.000406 | <6.8e-005 | <0.000203 | <6.8e-005 | 0.177 |
| Vert. Delineation | GS-AP-MW-23V | 02/23/2022 | <0.000508 | 0.000161 J | 0.0812 | <0.000406 | <6.8e-005 | 0.000663 J | 0.000203 | 0.141 |
| Vert. Delineation | GS-AP-MW-31V | 02/22/2022 | <0.000508 | 0.0011 | 0.238 | <0.000406 | <6.8e-005 | 0.000346 J | 6.98e-005 J | 0.179 |
| Vert. Delineation | GS-AP-MW-36V | 02/22/2022 | <0.000508 | 0.00167 | 0.092 | <0.000406 | <6.8e-005 | 0.000248 J | 9.1e-005 J | 0.259 |
| Vert. Delineation | GS-AP-MW-6V | 02/09/2022 | <0.000508 | 0.000904 | 0.156 | <0.000406 | <6.8e-005 | 0.000418 J | 0.000119 J | 4.35 |
| Vert. Delineation | GS-AP-PZ-16 | 02/15/2022 | <0.000508 | 0.00112 | 0.205 | <0.000406 | <6.8e-005 | 0.000297 J | 8.11e-005 J | 0.258 |
| Vert. Delineation | GS-AP-PZ-18R | 02/21/2022 | <0.000508 | 0.00167 | 0.0662 | <0.000406 | <6.8e-005 | 0.000262 J | 0.000136 J | 0.207 |
| Vert. Delineation | GS-AP-PZ-22 | 02/14/2022 | <0.000508 | 0.00358 | 0.0695 | <0.000406 | <6.8e-005 | 0.000221 J | <6.8e-005 | 0.422 |
| Horiz. Delineation | GS-AP-MW-23H | 02/14/2022 | <0.000508 | 0.061 | 0.0166 | <0.000406 | <6.8e-005 | 0.000227 J | 0.000521 | 0.14 |
| Horiz. Delineation | GS-AP-MW-24H | 02/15/2022 | <0.000508 | 0.000293 | 0.992 | <0.000406 | <6.8e-005 | 0.000294 J | 0.00023 | 0.176 |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Analytical Results Summary Plant Gorgas Ash Pond 02/08/2022 - 05/11/2022

| EPA Appendix IV Set | | | | | | | | | |
|---------------------|--------------|-------------|-------------|--------------|--------------|-----------------|---------------|---------------|---------------------------------|
| Hydraulic Location | Well | Sample Date | Lead mg/L | Lithium mg/L | Mercury mg/L | Molybdenum mg/L | Selenium mg/L | Thallium mg/L | Combined Radium 226 + 228 pCi/L |
| Downgradient | GS-AP-MW-3 | 02/16/2022 | <6.8e-005 | 0.0732 | <0.0003 | 0.00722 | <0.000508 | <6.8e-005 | 0.601 U |
| Downgradient | GS-AP-MW-3V | 02/23/2022 | 0.00014 J | 0.0489 | <0.0003 | 0.0191 | <0.000508 | <6.8e-005 | 0.57 U |
| Downgradient | GS-AP-MW-45V | 02/23/2022 | 7.41e-005 J | 0.0374 | <0.0003 | 0.0047 | <0.000508 | <6.8e-005 | 0.442 U |
| Downgradient | GS-AP-MW-46 | 02/23/2022 | <6.8e-005 | 0.0653 | <0.0003 | 0.00678 | <0.000508 | <6.8e-005 | 0.0974 U |
| Downgradient | GS-AP-MW-47 | 02/28/2022 | <6.8e-005 | 0.04 | <0.0003 | 0.00165 | <0.000508 | <6.8e-005 | 0.174 U |
| Downgradient | GS-AP-MW-5R | 03/01/2022 | <6.8e-005 | 0.0644 | <0.0003 | 0.00212 | <0.000508 | <6.8e-005 | 0.799 U |
| Downgradient | GS-AP-MW-6D | 02/14/2022 | <6.8e-005 | 0.302 | <0.0003 | 0.0115 | <0.000508 | <6.8e-005 | 1.24 |
| Downgradient | GS-AP-MW-6S | 02/14/2022 | <6.8e-005 | 0.0625 | <0.0003 | 0.0411 | 0.000854 J | <6.8e-005 | 0.14 U |
| Downgradient | GS-AP-MW-7 | 02/08/2022 | 0.000804 | 0.203 | <0.0003 | 0.221 | <0.000508 | <6.8e-005 | 0.355 U |
| Downgradient | GS-AP-MW-9R | 03/01/2022 | <6.8e-005 | 0.0361 | <0.0003 | 0.00313 | <0.000508 | <6.8e-005 | 0.663 U |
| Downgradient | GS-AP-MW-9V | 02/21/2022 | <6.8e-005 | 0.0293 | <0.0003 | 0.0022 | <0.000508 | <6.8e-005 | 0.134 U |
| Vert. Delineation | GS-AP-MW-23V | 02/23/2022 | 0.000208 | 0.041 | <0.0003 | 0.000132 J | <0.000508 | <6.8e-005 | 0.258 U |
| Vert. Delineation | GS-AP-MW-31V | 02/22/2022 | 0.00028 | 0.0316 | <0.0003 | 0.00536 | <0.000508 | <6.8e-005 | 0.486 U |
| Vert. Delineation | GS-AP-MW-36V | 02/22/2022 | 0.00016 J | 0.0383 | <0.0003 | 0.00427 | <0.000508 | <6.8e-005 | 0.495 U |
| Vert. Delineation | GS-AP-MW-6V | 02/09/2022 | 0.000186 J | 0.121 | <0.0003 | 0.00336 | <0.000508 | <6.8e-005 | 0.209 U |
| Vert. Delineation | GS-AP-PZ-16 | 02/15/2022 | 0.000665 | 0.0614 | <0.0003 | 0.00266 | <0.000508 | <6.8e-005 | 1.12 U |
| Vert. Delineation | GS-AP-PZ-18R | 02/21/2022 | <6.8e-005 | 0.0157 J | <0.0003 | 0.00091 | <0.000508 | <6.8e-005 | 0.775 U |
| Vert. Delineation | GS-AP-PZ-22 | 02/14/2022 | <6.8e-005 | 0.055 | <0.0003 | 0.00419 | <0.000508 | <6.8e-005 | 0.67 U |
| Horiz. Delineation | GS-AP-MW-23H | 02/14/2022 | <6.8e-005 | 0.0306 | <0.0003 | 0.00097 | <0.000508 | <6.8e-005 | 0.153 U |
| Horiz. Delineation | GS-AP-MW-24H | 02/15/2022 | <6.8e-005 | 0.0239 | <0.0003 | 0.000529 | <0.000508 | <6.8e-005 | 1.16 |

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
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- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 02/08/2022 - 05/11/2022

| EPA Appendix IV Set | | | | | | | | | | |
|---------------------|---------------|-------------|---------------|--------------|-------------|----------------|--------------|---------------|-------------|---------------|
| Hydraulic Location | Well | Sample Date | Antimony mg/L | Arsenic mg/L | Barium mg/L | Beryllium mg/L | Cadmium mg/L | Chromium mg/L | Cobalt mg/L | Fluoride mg/L |
| Horiz. Delineation | GS-AP-MW-25HA | 02/16/2022 | 0.000752 J | 0.00968 | 0.23 | <0.000406 | <6.8e-005 | 0.00062 J | 0.000108 J | 1.89 |
| Horiz. Delineation | GS-AP-MW-26H | 02/15/2022 | <0.000508 | 0.000254 | 0.726 | <0.000406 | <6.8e-005 | 0.000306 J | <6.8e-005 | 0.101 |
| Horiz. Delineation | GS-AP-MW-27HR | 02/22/2022 | 0.00053 J | 0.00102 | 0.0414 | <0.000406 | <6.8e-005 | 0.000288 J | <6.8e-005 | 0.292 |
| Horiz. Delineation | GS-AP-MW-28H | 02/14/2022 | <0.000508 | 0.000583 | 0.0483 | <0.000406 | <6.8e-005 | 0.000248 J | <6.8e-005 | 0.121 |
| Horiz. Delineation | GS-AP-MW-29H | 02/14/2022 | <0.000508 | 0.00313 | 0.231 | <0.000406 | <6.8e-005 | 0.000286 J | <6.8e-005 | 0.332 |
| Horiz. Delineation | GS-AP-MW-30HA | 02/08/2022 | <0.000508 | 0.00331 | 0.1 | <0.000406 | <6.8e-005 | 0.000375 J | 0.000184 J | 1.66 |
| Horiz. Delineation | GS-AP-MW-31H | 02/08/2022 | <0.000508 | 0.000341 | 0.14 | <0.000406 | <6.8e-005 | 0.000271 J | <6.8e-005 | 0.119 |
| Horiz. Delineation | GS-AP-MW-32H | 02/14/2022 | <0.000508 | 0.000615 | 0.047 | <0.000406 | <6.8e-005 | 0.000262 J | <6.8e-005 | 0.148 |
| Horiz. Delineation | GS-AP-MW-33HO | 02/09/2022 | <0.000508 | 0.000871 | 0.483 | <0.000406 | <6.8e-005 | 0.000263 J | <6.8e-005 | 0.131 |
| Horiz. Delineation | GS-AP-MW-34HO | 02/09/2022 | <0.000508 | 0.00112 | 0.0615 | <0.000406 | <6.8e-005 | 0.000412 J | 8.34e-005 J | 0.291 |
| Horiz. Delineation | GS-AP-MW-35HO | 02/09/2022 | <0.000508 | 0.000192 J | 0.0516 | <0.000406 | <6.8e-005 | 0.000286 J | <6.8e-005 | 0.119 |
| Horiz. Delineation | GS-AP-MW-36H | 02/14/2022 | <0.000508 | 0.00235 | 0.136 | <0.000406 | <6.8e-005 | <0.000203 | <6.8e-005 | 0.238 |
| Horiz. Delineation | GS-AP-MW-37HR | 02/28/2022 | <0.000508 | 0.000938 | 0.0131 | <0.000406 | <6.8e-005 | 0.000371 J | <6.8e-005 | 0.194 |
| Horiz. Delineation | GS-AP-MW-38H | 02/22/2022 | <0.000508 | 0.00221 | 0.301 | <0.000406 | <6.8e-005 | <0.000203 | <6.8e-005 | 0.239 |
| Horiz. Delineation | GS-AP-MW-40H | 02/15/2022 | <0.000508 | 0.0004 | 0.0298 | <0.000406 | <6.8e-005 | <0.000203 | 0.000518 | 0.0854 J |
| Horiz. Delineation | GS-AP-MW-41HD | 02/15/2022 | <0.000508 | 0.00284 | 0.0441 | <0.000406 | <6.8e-005 | 0.000258 J | 0.00102 | 0.125 |
| Horiz. Delineation | GS-AP-MW-41HS | 02/08/2022 | <0.000508 | 0.00144 | 0.0542 | <0.000406 | <6.8e-005 | 0.000348 J | 0.00378 | 0.117 |
| Horiz. Delineation | GS-AP-MW-42H | 02/16/2022 | <0.000508 | 0.00846 | 0.0226 | <0.000406 | <6.8e-005 | <0.000203 | 0.000453 | 0.0837 J |
| Horiz. Delineation | GS-AP-MW-43HO | 02/21/2022 | <0.000508 | 0.000889 | 0.0849 | <0.000406 | <6.8e-005 | 0.000272 J | <6.8e-005 | 0.226 |
| Horiz. Delineation | GS-AP-MW-44HO | 02/09/2022 | <0.000508 | 0.000353 | 0.0711 | <0.000406 | <6.8e-005 | 0.000233 J | <6.8e-005 | 0.142 |

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 02/08/2022 - 05/11/2022

| EPA Appendix IV Set | | | | | | | | | |
|---------------------|---------------|-------------|------------|--------------|--------------|-----------------|---------------|---------------|---------------------------------|
| Hydraulic Location | Well | Sample Date | Lead mg/L | Lithium mg/L | Mercury mg/L | Molybdenum mg/L | Selenium mg/L | Thallium mg/L | Combined Radium 226 + 228 pCi/L |
| Horiz. Delineation | GS-AP-MW-25HA | 02/16/2022 | 0.000181 J | 0.0504 | <0.0003 | 0.00977 | <0.000508 | <6.8e-005 | 0.565 U |
| Horiz. Delineation | GS-AP-MW-26H | 02/15/2022 | <6.8e-005 | 0.0917 | <0.0003 | 6.84e-005 J | <0.000508 | <6.8e-005 | 1.19 |
| Horiz. Delineation | GS-AP-MW-27HR | 02/22/2022 | <6.8e-005 | 0.042 | <0.0003 | 0.000829 | <0.000508 | <6.8e-005 | 0.645 U |
| Horiz. Delineation | GS-AP-MW-28H | 02/14/2022 | <6.8e-005 | 0.0551 | <0.0003 | 0.00481 | <0.000508 | <6.8e-005 | 0.31 U |
| Horiz. Delineation | GS-AP-MW-29H | 02/14/2022 | <6.8e-005 | 0.067 | <0.0003 | 0.0622 | <0.000508 | <6.8e-005 | 0.725 U |
| Horiz. Delineation | GS-AP-MW-30HA | 02/08/2022 | 0.000117 J | 0.0533 | <0.0003 | 0.00529 | <0.000508 | <6.8e-005 | 0.806 U |
| Horiz. Delineation | GS-AP-MW-31H | 02/08/2022 | <6.8e-005 | 0.0366 | <0.0003 | 0.00596 | <0.000508 | <6.8e-005 | 0.189 U |
| Horiz. Delineation | GS-AP-MW-32H | 02/14/2022 | <6.8e-005 | 0.0407 | <0.0003 | 0.0933 | <0.000508 | <6.8e-005 | 0.371 U |
| Horiz. Delineation | GS-AP-MW-33HO | 02/09/2022 | <6.8e-005 | 0.0517 | <0.0003 | 0.00513 | <0.000508 | <6.8e-005 | 0.767 U |
| Horiz. Delineation | GS-AP-MW-34HO | 02/09/2022 | <6.8e-005 | 0.185 | <0.0003 | 0.00959 | <0.000508 | <6.8e-005 | 0.213 U |
| Horiz. Delineation | GS-AP-MW-35HO | 02/09/2022 | <6.8e-005 | 0.0673 | <0.0003 | 0.00175 | <0.000508 | <6.8e-005 | 0.23 U |
| Horiz. Delineation | GS-AP-MW-36H | 02/14/2022 | <6.8e-005 | 0.0417 | <0.0003 | 0.0189 | <0.000508 | <6.8e-005 | 1.03 U |
| Horiz. Delineation | GS-AP-MW-37HR | 02/28/2022 | <6.8e-005 | 0.0312 | <0.0003 | 0.00315 | <0.000508 | <6.8e-005 | 0.739 U |
| Horiz. Delineation | GS-AP-MW-38H | 02/22/2022 | <6.8e-005 | 0.0594 | <0.0003 | 0.00322 | <0.000508 | <6.8e-005 | 0.341 U |
| Horiz. Delineation | GS-AP-MW-40H | 02/15/2022 | <6.8e-005 | 0.0539 | <0.0003 | 0.002 | <0.000508 | <6.8e-005 | 0.64 U |
| Horiz. Delineation | GS-AP-MW-41HD | 02/15/2022 | <6.8e-005 | 0.366 | <0.0003 | 0.0331 | <0.000508 | <6.8e-005 | 0.256 U |
| Horiz. Delineation | GS-AP-MW-41HS | 02/08/2022 | <6.8e-005 | 0.0817 | <0.0003 | 0.00104 | <0.000508 | <6.8e-005 | 0.267 U |
| Horiz. Delineation | GS-AP-MW-42H | 02/16/2022 | <6.8e-005 | 0.0313 | <0.0003 | 0.00155 | <0.000508 | <6.8e-005 | 0.275 U |
| Horiz. Delineation | GS-AP-MW-43HO | 02/21/2022 | 0.000116 J | 0.0579 | <0.0003 | 0.00309 | <0.000508 | <6.8e-005 | 0.509 U |
| Horiz. Delineation | GS-AP-MW-44HO | 02/09/2022 | <6.8e-005 | 0.0478 | <0.0003 | 0.00348 | <0.000508 | <6.8e-005 | 0.793 U |

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6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022**

| EPA Appendix IV Set | | | | | | | | | | |
|---------------------|--------------|-------------|------------------|-----------------|----------------|-------------------|-----------------|------------------|----------------|------------------|
| Hydraulic Location | Well | Sample Date | Antimony mg/L | Arsenic mg/L | Barium mg/L | Beryllium mg/L | Cadmium mg/L | Chromium mg/L | Cobalt mg/L | Fluoride mg/L |
| Piezometer | GS-AP-MW-16S | 02/15/2022 | 0.000675 J | 0.0011 | 0.255 | <0.000406 | <6.8e-005 | 0.000342 J | 0.000203 | 0.151 |
| Abandoned | GS-AP-MW-18V | 02/22/2022 | -- | -- | -- | -- | -- | -- | -- | -- |

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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022**

| EPA Appendix IV Set | | | | | | | | | |
|---------------------|--------------|-------------|-----------|--------------|--------------|-----------------|---------------|---------------|---------------------------------|
| Hydraulic Location | Well | Sample Date | Lead mg/L | Lithium mg/L | Mercury mg/L | Molybdenum mg/L | Selenium mg/L | Thallium mg/L | Combined Radium 226 + 228 pCi/L |
| Piezometer | GS-AP-MW-16S | 02/15/2022 | <6.8e-005 | 0.0911 | <0.0003 | 0.0337 | <0.000508 | <6.8e-005 | 1.23 |
| Abandoned | GS-AP-MW-18V | 02/22/2022 | -- | -- | -- | -- | -- | -- | 0.187 U |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Analytical Results Summary Plant Gorgas Ash Pond 02/08/2022 - 05/11/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|--------------|----------------------|----------------------------|-------------|-----------------|--------------|--------------|-------------|
| Hydraulic Location | Well | Sample Date | Silicon mg/L | Manganese Total mg/L | Carbon, Total Organic mg/L | Silica mg/L | Iron Total mg/L | Calcium mg/L | Sulfate mg/L | Sodium mg/L |
| Upgradient | GS-AP-MW-17V | 02/14/2022 | 10.8 | 0.0316 | <1 | 23.1 | 1.07 | 30.1 | 9.09 | 94.7 |
| Upgradient | GS-AP-MW-8 | 02/16/2022 | 17.4 | 0.0911 | <1 | 37.2 | 0.329 | 4.42 | 4.68 | 11.4 |
| Downgradient | GS-AP-MW-10R | 03/01/2022 | 11.9 | 0.0647 | 1.07 J | 25.5 | 0.732 | 39.8 | 21.6 | 40.8 |
| Downgradient | GS-AP-MW-11R | 03/01/2022 | 15.3 | 0.0708 | <1 | 32.7 | 2.03 | 45.3 | 39.4 | 14.7 |
| Downgradient | GS-AP-MW-12 | 02/28/2022 | 9.33 | 0.0328 | 1.23 J | 20 | 0.313 | 37.9 | 17.9 | 22.3 |
| Downgradient | GS-AP-MW-12V | 02/23/2022 | 13.3 | 0.0432 | 1.38 J | 28.5 | 0.849 | 46.3 | 0.741 J | 17.2 |
| Downgradient | GS-AP-MW-13R | 03/01/2022 | 13.1 | 0.0547 | <1 | 28 | 1.11 | 31.6 | 38 | 21.6 |
| Downgradient | GS-AP-MW-14R | 02/28/2022 | 12.4 | 0.0697 | 3.28 | 26.5 | 0.649 | 33.7 | 33.3 | 54.6 |
| Downgradient | GS-AP-MW-15 | 02/16/2022 | 22.3 | 0.000562 | 8.32 | 47.7 | 0.031 J | 6.76 | 7.37 | 155 |
| Downgradient | GS-AP-MW-15V | 02/16/2022 | 7.19 | 0.00548 | 11.4 | 15.4 | 0.0324 J | 14.3 | 224 | 222 |
| Downgradient | GS-AP-MW-16D | 02/15/2022 | 10.7 | 0.012 | <1 | 22.9 | 0.278 | 31.5 | 14.7 | 29.4 |
| Downgradient | GS-AP-MW-17 | 02/14/2022 | 7.9 | 0.00632 | 1.06 J | 16.9 | 0.119 | 2.17 | 14.4 | 184 |
| Downgradient | GS-AP-MW-18R | 02/22/2022 | 10.5 | 0.16 | <1 | 22.5 | 3.96 | 20.3 | 27 | 11.7 |
| Downgradient | GS-AP-MW-18VR | 02/22/2022 | 5.25 | 0.0245 | <1 | 11.2 | 0.664 | 5.8 | 13 | 113 |
| Downgradient | GS-AP-MW-19 | 02/22/2022 | 9.94 | 0.0259 | <1 | 21.3 | 0.443 | 54.6 | 13.7 | 42.9 |
| Downgradient | GS-AP-MW-1R | 03/01/2022 | 4.66 | 0.00478 | <1 | 9.97 | 0.166 | 1.14 | 5.88 | 128 |
| Downgradient | GS-AP-MW-2 | 02/22/2022 | 5.12 | 0.000807 | <1 | 11 | 0.0369 J | 0.413 | 17.1 | 132 |
| Downgradient | GS-AP-MW-21 | 02/08/2022 | 4.3 | 0.000798 | 1.48 J | 9.2 | 0.0214 J | 1.98 | 241 | 218 |
| Downgradient | GS-AP-MW-21V | 02/08/2022 | 5.35 | 0.0259 | 4.98 | 11.4 | 0.165 | 37.2 | 451 | 432 |
| Downgradient | GS-AP-MW-3 | 02/16/2022 | 5.55 | 0.108 | <1 | 11.9 | 2.15 | 18.6 | 91.2 | 80.8 |

Notes:

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- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|---------------------------------|---|------------------|----------------------------|------------------|---|-------------------|---|
| Hydraulic Location | Well | Sample Date | Nitrate Nitrite mg/L as N | Bicarbonate Alkalinity as CaCO3 mg/L | Aluminum mg/L | Magnesium Total mg/L | Chloride mg/L | Alkalinity Total as CaCO3 mg/L | Potassium mg/L | Carbonate Alkalinity as CaCO3 mg/L |
| Upgradient | GS-AP-MW-17V | 02/14/2022 | <0.2 | 344 | <0.00406 | 12.5 | 3.26 | 348 | 2.13 | 3.72 |
| Upgradient | GS-AP-MW-8 | 02/16/2022 | <0.2 | 59.8 | 0.0413 | 7.75 | 4.42 | 59.8 | 0.781 | 0.01 |
| Downgradient | GS-AP-MW-10R | 03/01/2022 | <0.2 | 216 | 0.0216 | 16.2 | 37.5 | 216 | 10.4 | 0.24 |
| Downgradient | GS-AP-MW-11R | 03/01/2022 | <0.2 | 181 | 0.0105 | 16.6 | 5.08 | 182 | 1.24 | 0.76 |
| Downgradient | GS-AP-MW-12 | 02/28/2022 | <0.2 | 186 | <0.00406 | 11.2 | 3.34 | 188 | 1.98 | 1.83 |
| Downgradient | GS-AP-MW-12V | 02/23/2022 | <0.2 | 207 | 0.236 | 11.6 | 3.83 | 208 | 2.26 | 1.28 |
| Downgradient | GS-AP-MW-13R | 03/01/2022 | <0.2 | 129 | 0.0337 | 13.3 | 19.2 | 130 | 1.87 | 0.51 |
| Downgradient | GS-AP-MW-14R | 02/28/2022 | <0.2 | 200 | 0.0987 | 13.4 | 38.1 | 200 | 2.85 | 0.33 |
| Downgradient | GS-AP-MW-15 | 02/16/2022 | <0.2 | 26.6 | 0.551 | 1.91 | 5.86 | 461 | 5.34 | 362 |
| Downgradient | GS-AP-MW-15V | 02/16/2022 | <0.2 | 219 | 0.0199 | 5.32 | 129 | 228 | 11.7 | 8.98 |
| Downgradient | GS-AP-MW-16D | 02/15/2022 | <0.2 | 221 | 0.054 | 12.2 | 3.58 | 223 | 1.45 | 2.33 |
| Downgradient | GS-AP-MW-17 | 02/14/2022 | <0.2 | 369 | 0.049 | 0.703 | 7.15 | 382 | 0.83 | 12.6 |
| Downgradient | GS-AP-MW-18R | 02/22/2022 | <0.2 | 79.7 | 0.105 | 5.3 | 3.52 | 79.7 | 0.864 | 0.05 |
| Downgradient | GS-AP-MW-18VR | 02/22/2022 | <0.2 | 244 | 0.059 | 1.82 | 15.3 | 250 | 2.58 | 5.39 |
| Downgradient | GS-AP-MW-19 | 02/22/2022 | <0.2 | 283 | 0.0091 J | 16.4 | 4.59 | 286 | 1.87 | 2.98 |
| Downgradient | GS-AP-MW-1R | 03/01/2022 | <0.2 | 256 | 0.204 | 0.348 J | 5.25 | 272 | 0.733 | 15.2 |
| Downgradient | GS-AP-MW-2 | 02/22/2022 | <0.2 | 202 | 0.125 | 0.12 J | 6.05 | 264 | 0.376 J | 60.1 |
| Downgradient | GS-AP-MW-21 | 02/08/2022 | <0.2 | 128 | 0.0337 | 0.419 | 41.4 | 191 | 1.99 | 60.4 |
| Downgradient | GS-AP-MW-21V | 02/08/2022 | <0.2 | 223 | 0.0253 | 10.3 | 432 | 225 | 73.2 | 1.87 |
| Downgradient | GS-AP-MW-3 | 02/16/2022 | <0.2 | 168 | 0.0229 | 8.21 | 14 | 170 | 1.11 | 1.9 |

Notes:

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- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Analytical Results Summary Plant Gorgas Ash Pond 02/08/2022 - 05/11/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|--------------|----------------------|----------------------------|-------------|-----------------|--------------|--------------|-------------|
| Hydraulic Location | Well | Sample Date | Silicon mg/L | Manganese Total mg/L | Carbon, Total Organic mg/L | Silica mg/L | Iron Total mg/L | Calcium mg/L | Sulfate mg/L | Sodium mg/L |
| Downgradient | GS-AP-MW-3V | 02/23/2022 | 7.06 | 0.0519 | 9.42 | 15.1 | 1.17 | 9.73 | 370 | 319 |
| Downgradient | GS-AP-MW-45V | 02/23/2022 | 5.92 | 0.0219 | 1.31 J | 12.7 | 0.0704 | 5.61 | 273 | 216 |
| Downgradient | GS-AP-MW-46 | 02/23/2022 | 4.52 | 0.00132 | 1.56 J | 9.67 | 0.0105 J | 1.2 | 317 | 245 |
| Downgradient | GS-AP-MW-47 | 02/28/2022 | 11.2 | 0.0445 | 1.37 J | 24 | 0.542 | 28.7 | 14.4 | 26.6 |
| Downgradient | GS-AP-MW-5R | 03/01/2022 | 11.8 | 0.135 | 4.29 | 25.3 | 1.01 | 97.3 | 348 | 103 |
| Downgradient | GS-AP-MW-6D | 02/14/2022 | 6.82 | 0.192 | 1.31 J | 14.6 | 0.0603 | 55.7 | 58.3 | 26.7 |
| Downgradient | GS-AP-MW-6S | 02/14/2022 | 4.83 | 2.5 | 1.14 J | 10.3 | 5.98 | 60.1 | 115 | 11.1 |
| Downgradient | GS-AP-MW-7 | 02/08/2022 | 5.71 | 0.0537 | <1 | 12.2 | 1.13 | 10.7 | 136 | 102 |
| Downgradient | GS-AP-MW-9R | 03/01/2022 | 14.5 | 0.191 | 1.99 J | 31 | 1.58 | 54 | 104 | 60 |
| Downgradient | GS-AP-MW-9V | 02/21/2022 | 15.4 | 0.0353 | 1.7 J | 33 | 0.266 | 47.7 | 32.4 | 47.1 |
| Vert. Delineation | GS-AP-MW-23V | 02/23/2022 | 14 | 0.139 | 1 J | 30 | 0.777 | 152 | 331 | 48.3 |
| Vert. Delineation | GS-AP-MW-31V | 02/22/2022 | 7.55 | 0.0272 | 1.5 J | 16.2 | 0.19 | 7.58 | 26.2 | 151 |
| Vert. Delineation | GS-AP-MW-36V | 02/22/2022 | 7.6 | 0.046 | 3.21 | 16.3 | 0.216 | 9.42 | 53.9 | 153 |
| Vert. Delineation | GS-AP-MW-6V | 02/09/2022 | 4.33 | 0.00868 | 1.36 J | 9.27 | 0.143 | 1.29 | 8.6 | 361 |
| Vert. Delineation | GS-AP-PZ-16 | 02/15/2022 | 8.67 | 0.0198 | 1.31 J | 18.6 | 0.269 | 11.5 | 23.1 | 157 |
| Vert. Delineation | GS-AP-PZ-18R | 02/21/2022 | 11.1 | 0.0605 | <1 | 23.8 | 0.699 | 69 | 55.5 | 18 |
| Vert. Delineation | GS-AP-PZ-22 | 02/14/2022 | 6.66 | 0.0932 | 1.11 J | 14.3 | 5.42 | 18.1 | 91.1 | 141 |
| Horiz. Delineation | GS-AP-MW-23H | 02/14/2022 | 13 | 1.5 | <1 | 27.8 | 49.1 | 74.4 | 356 | 22.1 |
| Horiz. Delineation | GS-AP-MW-24H | 02/15/2022 | 13.6 | 0.102 | <1 | 29.1 | 2.02 | 42.4 | 12.1 | 32.1 |
| Horiz. Delineation | GS-AP-MW-25HA | 02/16/2022 | 5.35 | 0.00799 | 18.9 | 11.4 | 0.23 | 1.82 | 130 | 358 |

Notes:

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
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- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 02/08/2022 - 05/11/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|---------------------------------|---|------------------|----------------------------|------------------|---|-------------------|---|
| Hydraulic Location | Well | Sample Date | Nitrate Nitrite mg/L as N | Bicarbonate Alkalinity as CaCO3 mg/L | Aluminum mg/L | Magnesium Total mg/L | Chloride mg/L | Alkalinity Total as CaCO3 mg/L | Potassium mg/L | Carbonate Alkalinity as CaCO3 mg/L |
| Downgradient | GS-AP-MW-3V | 02/23/2022 | <0.2 | 249 | 0.0334 | 3.55 | 155 | 250 | 25.5 | 0.89 |
| Downgradient | GS-AP-MW-45V | 02/23/2022 | <0.2 | 199 | 0.133 | 1.86 | 54.2 | 200 | 11.6 | 0.96 |
| Downgradient | GS-AP-MW-46 | 02/23/2022 | <0.2 | 202 | 0.0147 | 0.409 | 43.9 | 206 | 0.609 | 4.24 |
| Downgradient | GS-AP-MW-47 | 02/28/2022 | <0.2 | 166 | 0.0144 | 10.3 | 11.7 | 167 | 3.41 | 0.96 |
| Downgradient | GS-AP-MW-5R | 03/01/2022 | <0.2 | 269 | <0.00406 | 37.6 | 46.4 | 270 | 6.57 | 0.94 |
| Downgradient | GS-AP-MW-6D | 02/14/2022 | <0.2 | 209 | 0.00587 J | 15.2 | 11.7 | 211 | 2.35 | 2.06 |
| Downgradient | GS-AP-MW-6S | 02/14/2022 | 0.273 J | 112 | 0.0203 | 20.4 | 20.6 | 113 | 3.78 | 0.65 |
| Downgradient | GS-AP-MW-7 | 02/08/2022 | <0.2 | 112 | 0.269 | 3.91 | 7.45 | 113 | 1.32 | 0.74 |
| Downgradient | GS-AP-MW-9R | 03/01/2022 | <0.2 | 134 | 0.0137 | 19.7 | 65.9 | 134 | 5.76 | 0.09 |
| Downgradient | GS-AP-MW-9V | 02/21/2022 | <0.2 | 228 | <0.00406 | 15.5 | 18.4 | 229 | 3.16 | 0.59 |
| Vert. Delineation | GS-AP-MW-23V | 02/23/2022 | <0.2 | 293 | 0.295 | 39.9 | 3.21 | 294 | 2.36 | 1.41 |
| Vert. Delineation | GS-AP-MW-31V | 02/22/2022 | <0.2 | 303 | 0.0943 | 2.29 | 32.1 | 307 | 7.57 | 3.84 |
| Vert. Delineation | GS-AP-MW-36V | 02/22/2022 | <0.2 | 272 | 0.0129 | 3.84 | 55.9 | 274 | 12 | 1.73 |
| Vert. Delineation | GS-AP-MW-6V | 02/09/2022 | <0.2 | 766 | 0.199 | 0.431 | 53.3 | 803 | 1.17 | 36.9 |
| Vert. Delineation | GS-AP-PZ-16 | 02/15/2022 | <0.2 | 320 | 0.329 | 2.2 | 5.84 | 347 | 2.67 | 26.8 |
| Vert. Delineation | GS-AP-PZ-18R | 02/21/2022 | <0.2 | 225 | 0.00937 J | 18.8 | 5.32 | 226 | 1.22 | 0.5 |
| Vert. Delineation | GS-AP-PZ-22 | 02/14/2022 | <0.2 | 290 | <0.00406 | 6.12 | 3.1 | 294 | 1.95 | 3.85 |
| Horiz. Delineation | GS-AP-MW-23H | 02/14/2022 | 0.222 J | 83.2 | <0.00406 | 34.4 | 12.8 | 83.3 | 2.51 | 0.06 |
| Horiz. Delineation | GS-AP-MW-24H | 02/15/2022 | <0.2 | 245 | 0.0285 | 14.1 | 3.18 | 248 | 1.41 | 2.77 |
| Horiz. Delineation | GS-AP-MW-25HA | 02/16/2022 | <0.2 | 651 | 0.378 | 0.684 | 34.3 | 691 | 1.23 | 39.5 |

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
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6. NC = value not detected with alkalinity calculation
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Analytical Results Summary Plant Gorgas Ash Pond 02/08/2022 - 05/11/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|--------------|----------------------|----------------------------|-------------|-----------------|--------------|--------------|-------------|
| Hydraulic Location | Well | Sample Date | Silicon mg/L | Manganese Total mg/L | Carbon, Total Organic mg/L | Silica mg/L | Iron Total mg/L | Calcium mg/L | Sulfate mg/L | Sodium mg/L |
| Horiz. Delineation | GS-AP-MW-26H | 02/15/2022 | 10.8 | 0.0185 | <1 | 23.1 | 0.958 | 26.6 | 7.16 | 64.7 |
| Horiz. Delineation | GS-AP-MW-27HR | 02/22/2022 | 6.65 | 0.0491 | 12.5 | 14.2 | 0.0619 | 12.3 | 268 | 363 |
| Horiz. Delineation | GS-AP-MW-28H | 02/14/2022 | 8.26 | 0.00794 | <1 | 17.7 | 0.113 | 1.66 | 3.99 | 182 |
| Horiz. Delineation | GS-AP-MW-29H | 02/14/2022 | 9.37 | 0.0111 | 1.16 J | 20.1 | 0.168 | 13.9 | 49.7 | 126 |
| Horiz. Delineation | GS-AP-MW-30HA | 02/08/2022 | 10.3 | 0.163 | 2.21 | 22 | 2.62 | 46.7 | 215 | 185 |
| Horiz. Delineation | GS-AP-MW-31H | 02/08/2022 | 8.8 | 0.00989 | <1 | 18.8 | 0.0107 J | 5.73 | 29.5 | 123 |
| Horiz. Delineation | GS-AP-MW-32H | 02/14/2022 | 5.18 | 0.00781 | 1.01 J | 11.1 | 0.0573 | 2.53 | 38.4 | 140 |
| Horiz. Delineation | GS-AP-MW-33HO | 02/09/2022 | 8.83 | 0.0502 | 3.74 | 18.9 | 0.0853 | 25.2 | 77.8 | 124 |
| Horiz. Delineation | GS-AP-MW-34HO | 02/09/2022 | 5.57 | 0.274 | 9.19 | 11.9 | 0.774 | 105 | 1570 | 886 |
| Horiz. Delineation | GS-AP-MW-35HO | 02/09/2022 | 8.84 | 0.00618 | 1.02 J | 18.9 | 0.0283 J | 2.11 | 21.7 | 119 |
| Horiz. Delineation | GS-AP-MW-36H | 02/14/2022 | 6.76 | 0.00997 | 2.9 | 14.5 | 0.0685 | 4.69 | 112 | 173 |
| Horiz. Delineation | GS-AP-MW-37HR | 02/28/2022 | 8.99 | 0.016 | 1.41 J | 19.2 | 0.0797 | 2.59 | 22.6 | 109 |
| Horiz. Delineation | GS-AP-MW-38H | 02/22/2022 | 7.45 | 0.0277 | 2.52 | 15.9 | 0.104 | 10.8 | 27.9 | 124 |
| Horiz. Delineation | GS-AP-MW-40H | 02/15/2022 | 11.8 | 0.373 | 2.14 | 25.3 | 2.33 | 203 | 684 | 65.1 |
| Horiz. Delineation | GS-AP-MW-41HD | 02/15/2022 | 7.5 | 0.546 | <1 | 16 | 0.0141 J | 57.6 | 110 | 19 |
| Horiz. Delineation | GS-AP-MW-41HS | 02/08/2022 | 8.96 | 0.267 | 1.93 J | 19.2 | 1.89 | 30.6 | 105 | 32.6 |
| Horiz. Delineation | GS-AP-MW-42H | 02/16/2022 | 10.6 | 0.931 | 1.13 J | 22.7 | 4.27 | 138 | 396 | 32.6 |
| Horiz. Delineation | GS-AP-MW-43HO | 02/21/2022 | 5.55 | 0.00801 | 5.21 | 11.9 | 0.0282 J | 4.56 | 347 | 321 |
| Horiz. Delineation | GS-AP-MW-44HO | 02/09/2022 | 5.06 | 0.00149 | 1.49 J | 10.8 | 0.018 J | 1.16 | 27.7 | 201 |
| Piezometer | GS-AP-MW-16S | 02/15/2022 | 5.36 | 0.000149 J | 2.42 | 11.5 | 0.0532 | 93.6 | 6.47 | 168 |

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- NC = value not detected with alkalinity calculation
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Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
02/08/2022 - 05/11/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|---------------------------------|---|------------------|----------------------------|------------------|---|-------------------|---|
| Hydraulic Location | Well | Sample Date | Nitrate Nitrite mg/L as N | Bicarbonate Alkalinity as CaCO3 mg/L | Aluminum mg/L | Magnesium Total mg/L | Chloride mg/L | Alkalinity Total as CaCO3 mg/L | Potassium mg/L | Carbonate Alkalinity as CaCO3 mg/L |
| Horiz. Delineation | GS-AP-MW-26H | 02/15/2022 | <0.2 | 265 | 0.0162 | 11.7 | 2.59 | 269 | 2.48 | 3.52 |
| Horiz. Delineation | GS-AP-MW-27HR | 02/22/2022 | <0.2 | 287 | 0.0691 | 2.96 | 253 | 290 | 2.68 | 2.76 |
| Horiz. Delineation | GS-AP-MW-28H | 02/14/2022 | <0.2 | 405 | 0.0303 | 0.521 | 8.33 | 417 | 1.07 | 11.5 |
| Horiz. Delineation | GS-AP-MW-29H | 02/14/2022 | <0.2 | 286 | 0.0111 | 5.1 | 14.2 | 289 | 1.38 | 3.02 |
| Horiz. Delineation | GS-AP-MW-30HA | 02/08/2022 | <0.2 | 295 | 0.0592 | 8.11 | 5.81 | 296 | 4.15 | 0.67 |
| Horiz. Delineation | GS-AP-MW-31H | 02/08/2022 | <0.2 | 225 | 0.0196 | 2.05 | 32.5 | 231 | 1.74 | 5.96 |
| Horiz. Delineation | GS-AP-MW-32H | 02/14/2022 | <0.2 | 230 | 0.0555 | 0.49 | 29.8 | 234 | 2.1 | 4.12 |
| Horiz. Delineation | GS-AP-MW-33HO | 02/09/2022 | <0.2 | 246 | 0.00561 J | 10.4 | 68.9 | 247 | 7.4 | 1.06 |
| Horiz. Delineation | GS-AP-MW-34HO | 02/09/2022 | <0.2 | 195 | 0.00715 J | 32.3 | 392 | 195 | 70.1 | 0.34 |
| Horiz. Delineation | GS-AP-MW-35HO | 02/09/2022 | <0.2 | 235 | 0.021 | 0.519 | 17.5 | 241 | 2.15 | 5.68 |
| Horiz. Delineation | GS-AP-MW-36H | 02/14/2022 | <0.2 | 213 | 0.0236 | 1.22 | 77.7 | 216 | 6.47 | 3.24 |
| Horiz. Delineation | GS-AP-MW-37HR | 02/28/2022 | <0.2 | 222 | 0.0485 | 0.783 | 28.1 | 224 | 6.41 | 1.99 |
| Horiz. Delineation | GS-AP-MW-38H | 02/22/2022 | <0.2 | 259 | 0.0386 | 3.66 | 31 | 263 | 5 | 4.23 |
| Horiz. Delineation | GS-AP-MW-40H | 02/15/2022 | <0.2 | 237 | <0.00406 | 93.1 | 18 | 237 | 4.71 | 0.15 |
| Horiz. Delineation | GS-AP-MW-41HD | 02/15/2022 | <0.2 | 152 | <0.00406 | 17.9 | 6.67 | 153 | 1.66 | 0.62 |
| Horiz. Delineation | GS-AP-MW-41HS | 02/08/2022 | <0.2 | 117 | 0.0277 | 19.4 | 6.72 | 117 | 2.12 | 0.06 |
| Horiz. Delineation | GS-AP-MW-42H | 02/16/2022 | <0.2 | 195 | <0.00406 | 51.3 | 8.61 | 196 | 2 | 1.36 |
| Horiz. Delineation | GS-AP-MW-43HO | 02/21/2022 | <0.2 | 332 | 0.0878 | 1.19 | 104 | 347 | 3.43 | 14.6 |
| Horiz. Delineation | GS-AP-MW-44HO | 02/09/2022 | <0.2 | 374 | 0.0262 | 0.32 J | 28.5 | 400 | 0.746 | 26 |
| Piezometer | GS-AP-MW-16S | 02/15/2022 | <0.2 | -- | 4.7 | <0.021315 | 4.03 | 779 | 4.98 | -- |

Notes:

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- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| Field Parameters | | | | | | | | |
|--------------------|---------------|-------------|---------------|--------------------|---------|---------------------|-------------|---------|
| Hydraulic Location | Well | Sample Date | Turbidity NTU | Conductivity uS/cm | DO mg/L | Field Temperature C | pH_Field SU | ORP mv |
| Upgradient | GS-AP-MW-17V | 08/09/2022 | 1.9 | 607.23 | 0.43 | 19.17 | 7.55 | -145.51 |
| Upgradient | GS-AP-MW-8 | 08/02/2022 | 1.32 | 133.94 | 0.79 | 21.6 | 5.78 | 113.61 |
| Downgradient | GS-AP-MW-10R | 08/03/2022 | 3.21 | 598.76 | 0.18 | 19.68 | 6.7 | -139.2 |
| Downgradient | GS-AP-MW-11R | 07/19/2022 | 6.3 | 420.83 | 0.25 | 18.13 | 6.13 | -19.11 |
| Downgradient | GS-AP-MW-12 | 07/19/2022 | 0.68 | 313.53 | 0.54 | 21.13 | 8.79 | -180.14 |
| Downgradient | GS-AP-MW-12V | 07/20/2022 | 6.27 | 258.53 | 0.88 | 22.29 | 8.52 | -178.39 |
| Downgradient | GS-AP-MW-13R | 07/20/2022 | 4.36 | 388.36 | 0.64 | 22.29 | 6.39 | -101.54 |
| Downgradient | GS-AP-MW-14R | 08/03/2022 | 1.9 | 478.01 | 1.28 | 18.62 | 6.44 | -76.12 |
| Downgradient | GS-AP-MW-15 | 08/02/2022 | 2.3 | 1866.78 | 0.84 | 21.49 | 11.84 | -265.76 |
| Downgradient | GS-AP-MW-15V | 08/02/2022 | 1.45 | 1392.92 | 0.94 | 22.46 | 8.21 | -144.25 |
| Downgradient | GS-AP-MW-16D | 08/02/2022 | 4.4 | 414.33 | 0.96 | 20.8 | 7.49 | -89.6 |
| Downgradient | GS-AP-MW-17 | 08/08/2022 | 1.51 | 750.33 | 0.27 | 18.83 | 8.38 | -182.82 |
| Downgradient | GS-AP-MW-18R | 08/03/2022 | 2.46 | 257.58 | 0.35 | 17.68 | 6.46 | -17.72 |
| Downgradient | GS-AP-MW-18VR | 08/09/2022 | 9.87 | 407.14 | 0.11 | 19.2 | 7.93 | -155.28 |
| Downgradient | GS-AP-MW-19 | 08/03/2022 | 0.65 | 543.91 | 0.28 | 19.3 | 7.87 | -154.04 |
| Downgradient | GS-AP-MW-1R | 08/02/2022 | 5.37 | 490 | 0.11 | 20.94 | 8.35 | -233.55 |
| Downgradient | GS-AP-MW-2 | 07/19/2022 | 1.26 | 415.07 | 0.26 | 19.03 | 9.6 | -249.34 |
| Downgradient | GS-AP-MW-21 | 08/10/2022 | 2.16 | 879.93 | 0.26 | 18.59 | 9.26 | -225.89 |
| Downgradient | GS-AP-MW-21V | 08/09/2022 | 2.74 | 2352.57 | 0.45 | 22.23 | 7.9 | -187.11 |
| Downgradient | GS-AP-MW-3 | 07/20/2022 | 0.6 | 467.18 | 0.99 | 20.22 | 8.1 | -139.43 |

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
07/19/2022 - 08/10/2022

| Field Parameters | | | | | | | | |
|--------------------|---------------|-------------|---------------|--------------------|---------|---------------------|-------------|---------|
| Hydraulic Location | Well | Sample Date | Turbidity NTU | Conductivity uS/cm | DO mg/L | Field Temperature C | pH_Field SU | ORP mv |
| Downgradient | GS-AP-MW-3V | 07/20/2022 | 3.31 | 3180.39 | 1.51 | 20.41 | 7.41 | -74.13 |
| Downgradient | GS-AP-MW-45V | 08/08/2022 | 0.96 | 1202.45 | 0.77 | 22.27 | 7.74 | -211.46 |
| Downgradient | GS-AP-MW-46 | 08/02/2022 | 1.14 | 947.76 | 0.18 | 20.11 | 8.67 | -297.74 |
| Downgradient | GS-AP-MW-47 | 07/26/2022 | 1.95 | 772.42 | 0.62 | 20.95 | 7.32 | -114.63 |
| Downgradient | GS-AP-MW-5R | 08/02/2022 | 0.84 | 1244.19 | 0.48 | 21.64 | 6.72 | -121.27 |
| Downgradient | GS-AP-MW-6D | 07/25/2022 | 0.35 | 456.88 | 0.1 | 19.55 | 6.95 | -45.12 |
| Downgradient | GS-AP-MW-6S | 07/26/2022 | 4.77 | 481.64 | 0.11 | 19.5 | 6.97 | -93.3 |
| Downgradient | GS-AP-MW-7 | 07/25/2022 | 10.17 | 549.15 | 0.53 | 19.92 | 7.64 | -173.08 |
| Downgradient | GS-AP-MW-9R | 07/19/2022 | 1.33 | 515.16 | 0.17 | 19.22 | 6.31 | -60.58 |
| Downgradient | GS-AP-MW-9V | 07/19/2022 | 0.44 | 519.52 | 1.08 | 19.64 | 6.99 | -152.29 |
| Vert. Delineation | GS-AP-MW-23V | 07/26/2022 | 1.23 | 958.21 | 0.15 | 18.98 | 7.1 | -99.58 |
| Vert. Delineation | GS-AP-MW-31V | 08/03/2022 | 3.29 | 1471.52 | 0.49 | 21.68 | 7.88 | -180.17 |
| Vert. Delineation | GS-AP-MW-36V | 07/27/2022 | 1.06 | 4647.65 | 0.34 | 20.56 | 7.14 | -174.04 |
| Vert. Delineation | GS-AP-MW-6V | 07/25/2022 | 13.2 | 1172.91 | 0.36 | 20.69 | 8.66 | -168.38 |
| Vert. Delineation | GS-AP-PZ-16 | 07/26/2022 | 1.8 | 706.16 | 0.24 | 18.85 | 9.29 | -224.6 |
| Vert. Delineation | GS-AP-PZ-18R | 07/27/2022 | 0.92 | 1024.62 | 0.23 | 18.65 | 7.18 | -95.68 |
| Vert. Delineation | GS-AP-PZ-22 | 08/09/2022 | 0.85 | 617.67 | 0.42 | 21.99 | 8.78 | -195.56 |
| Horiz. Delineation | GS-AP-MW-23H | 07/26/2022 | 1.25 | 791.99 | 0.42 | 18.66 | 5.73 | 22.9 |
| Horiz. Delineation | GS-AP-MW-24H | 07/27/2022 | 3.06 | 389.18 | 0.11 | 19.29 | 6.98 | -82.14 |
| Horiz. Delineation | GS-AP-MW-25HA | 08/03/2022 | 6.26 | 1426.78 | 0.65 | 20.96 | 8.55 | -265.39 |

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
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- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
07/19/2022 - 08/10/2022

| Field Parameters | | | | | | | | |
|--------------------|---------------|-------------|---------------|--------------------|---------|---------------------|-------------|---------|
| Hydraulic Location | Well | Sample Date | Turbidity NTU | Conductivity uS/cm | DO mg/L | Field Temperature C | pH_Field SU | ORP mv |
| Horiz. Delineation | GS-AP-MW-26H | 08/10/2022 | 1.78 | 403.44 | 1.56 | 23.47 | 7.13 | -105.76 |
| Horiz. Delineation | GS-AP-MW-27HR | 07/27/2022 | 1.27 | 5265.7 | 0.37 | 21.11 | 7.44 | -208.95 |
| Horiz. Delineation | GS-AP-MW-28H | 07/27/2022 | 1.33 | 1349.92 | 0.27 | 18.61 | 8.43 | -204.14 |
| Horiz. Delineation | GS-AP-MW-29H | 08/03/2022 | 1.1 | 625.07 | 0.22 | 19.38 | 7.83 | -130.3 |
| Horiz. Delineation | GS-AP-MW-30HA | 08/03/2022 | 4.82 | 1198.72 | 0.47 | 21.91 | 7.17 | -134.12 |
| Horiz. Delineation | GS-AP-MW-31H | 08/03/2022 | 1.57 | 620.77 | 0.18 | 18.88 | 8.85 | -283.35 |
| Horiz. Delineation | GS-AP-MW-32H | 07/27/2022 | 4.12 | 634.69 | 1.28 | 27.36 | 7.88 | -126.27 |
| Horiz. Delineation | GS-AP-MW-33HO | 07/26/2022 | 1.26 | 456.21 | 0.6 | 21.65 | 7.43 | -193.62 |
| Horiz. Delineation | GS-AP-MW-34HO | 07/26/2022 | 4.01 | 4469.38 | 0.5 | 23.81 | 7.06 | -219.45 |
| Horiz. Delineation | GS-AP-MW-35HO | 07/25/2022 | 4.64 | 446.26 | 0.66 | 22.81 | 8.28 | -190.34 |
| Horiz. Delineation | GS-AP-MW-36H | 07/20/2022 | 4.2 | 332.02 | 0.33 | 22.98 | 8.05 | -179.39 |
| Horiz. Delineation | GS-AP-MW-37HR | 07/26/2022 | 1.88 | 697.43 | 0.32 | 21.9 | 7.88 | -200.78 |
| Horiz. Delineation | GS-AP-MW-38H | 08/10/2022 | 1.27 | 820.39 | 0.49 | 21.2 | 7.49 | -150.41 |
| Horiz. Delineation | GS-AP-MW-40H | 08/02/2022 | 0.76 | 1620.7 | 1.8 | 23.04 | 6.47 | -23.91 |
| Horiz. Delineation | GS-AP-MW-41HD | 07/27/2022 | 0.41 | 450.11 | 0.12 | 18.86 | 7.16 | -7.62 |
| Horiz. Delineation | GS-AP-MW-41HS | 07/26/2022 | 4.78 | 413.7 | 1.35 | 21.18 | 6.19 | 53.14 |
| Horiz. Delineation | GS-AP-MW-42H | 07/27/2022 | 4.25 | 947.31 | 0.1 | 19.35 | 6.59 | -10.43 |
| Horiz. Delineation | GS-AP-MW-43HO | 08/03/2022 | 1.92 | 1460.14 | 0.47 | 21.71 | 8.51 | -304.65 |
| Horiz. Delineation | GS-AP-MW-44HO | 07/20/2022 | 4.93 | 845.96 | 0.3 | 19.34 | 9.02 | -292.64 |
| Piezometer | GS-AP-MW-16S | 08/02/2022 | 4.16 | 3393 | 3.29 | 20.16 | 12.53 | -161.36 |

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- NC = value not detected with alkalinity calculation
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Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| EPA Appendix III Set | | | | | | | | |
|----------------------|---------------|-------------|------------|--------------|---------------|---------------|-------------|--------------|
| Hydraulic Location | Well | Sample Date | Boron mg/L | Calcium mg/L | Chloride mg/L | Fluoride mg/L | pH_Field SU | Sulfate mg/L |
| Upgradient | GS-AP-MW-17V | 08/09/2022 | 0.0418 J | 31.4 | 3.09 | 0.245 | 7.55 | 8.13 |
| Upgradient | GS-AP-MW-8 | 08/02/2022 | <0.03 | 5.28 | 4.35 | 0.0815 J | 5.78 | 4.18 |
| Downgradient | GS-AP-MW-10R | 08/03/2022 | <0.03 | 46.6 | 33.5 | 0.265 | 6.7 | 30.9 |
| Downgradient | GS-AP-MW-11R | 07/19/2022 | 0.111 | 56.8 | 5.38 | 0.0992 J | 6.13 | 39.4 |
| Downgradient | GS-AP-MW-12 | 07/19/2022 | <0.03 | 37.6 | 2.99 | 0.0983 J | 8.79 | 18.5 |
| Downgradient | GS-AP-MW-12V | 07/20/2022 | <0.03 | 47.5 | 3.85 | 0.18 | 8.52 | 1.08 J |
| Downgradient | GS-AP-MW-13R | 07/20/2022 | <0.03 | 31.8 | 17.6 | 0.084 J | 6.39 | 38.9 |
| Downgradient | GS-AP-MW-14R | 08/03/2022 | <0.03 | 35.3 | 16.1 | 0.145 | 6.44 | 24.7 |
| Downgradient | GS-AP-MW-15 | 08/02/2022 | 0.0426 J | 3.31 | 4.36 | 0.373 | 11.84 | 9.11 |
| Downgradient | GS-AP-MW-15V | 08/02/2022 | 0.0649 J | 22.2 | 126 | 0.206 | 8.21 | 218 |
| Downgradient | GS-AP-MW-16D | 08/02/2022 | <0.03 | 33.8 | 3.65 | 0.112 J | 7.49 | 15.6 |
| Downgradient | GS-AP-MW-17 | 08/08/2022 | 0.0717 J | 2.44 | 6.21 | 0.257 | 8.38 | 8.35 |
| Downgradient | GS-AP-MW-18R | 08/03/2022 | <0.03 | 30.8 | 4.34 | 0.0924 J | 6.46 | 21.2 |
| Downgradient | GS-AP-MW-18VR | 08/09/2022 | 0.0488 J | 2.49 | 3.31 | 0.133 | 7.93 | 5.54 |
| Downgradient | GS-AP-MW-19 | 08/03/2022 | 0.0329 J | 56.4 | 5.35 | 0.231 | 7.87 | 17.1 |
| Downgradient | GS-AP-MW-1R | 08/02/2022 | 0.0596 J | 0.888 | 5.38 | 0.177 | 8.35 | 4.28 |
| Downgradient | GS-AP-MW-2 | 07/19/2022 | 0.106 | 0.359 J | 4.42 | 0.752 | 9.6 | 19.4 |
| Downgradient | GS-AP-MW-21 | 08/10/2022 | 0.119 | 3.49 | 44 | 0.186 | 9.26 | 245 |
| Downgradient | GS-AP-MW-21V | 08/09/2022 | 0.0869 J | 33 | 327 | 0.406 | 7.9 | 360 |
| Downgradient | GS-AP-MW-3 | 07/20/2022 | 0.292 | 17.6 | 15.3 | <0.06 | 8.1 | 78.6 |
| Downgradient | GS-AP-MW-3V | 07/20/2022 | 0.148 | 22.1 | 399 | 0.231 | 7.41 | 454 |

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Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| EPA Appendix III Set | | | | | | | | |
|----------------------|---------------|-------------|------------|--------------|---------------|---------------|-------------|--------------|
| Hydraulic Location | Well | Sample Date | Boron mg/L | Calcium mg/L | Chloride mg/L | Fluoride mg/L | pH_Field SU | Sulfate mg/L |
| Downgradient | GS-AP-MW-45V | 08/08/2022 | 0.0415 J | 6.3 | 58.8 | 0.154 | 7.74 | 273 |
| Downgradient | GS-AP-MW-46 | 08/02/2022 | 0.832 | 1.21 | 37 | 0.249 | 8.67 | 200 |
| Downgradient | GS-AP-MW-47 | 07/26/2022 | <0.03 | 29 | 15.4 | 0.0601 J | 7.32 | 16.7 |
| Downgradient | GS-AP-MW-5R | 08/02/2022 | 0.0384 J | 107 | 54.5 | 0.144 | 6.72 | 294 |
| Downgradient | GS-AP-MW-6D | 07/25/2022 | 1.39 | 57.9 | 9.59 | 0.1 J | 6.95 | 57.7 |
| Downgradient | GS-AP-MW-6S | 07/26/2022 | 1.11 | 51.8 | 22.9 | 0.164 | 6.97 | 106 |
| Downgradient | GS-AP-MW-7 | 07/25/2022 | 1.73 | 10.6 | 8.14 | 0.0734 J | 7.64 | 140 |
| Downgradient | GS-AP-MW-9R | 07/19/2022 | 0.104 | 52 | 24.5 | 0.245 | 6.31 | 86.6 |
| Downgradient | GS-AP-MW-9V | 07/19/2022 | 0.0327 J | 54.7 | 18.8 | 0.159 | 6.99 | 37.1 |
| Vert. Delineation | GS-AP-MW-23V | 07/26/2022 | 0.0772 J | 138 | 3.49 | 0.0773 J | 7.1 | 286 |
| Vert. Delineation | GS-AP-MW-31V | 08/03/2022 | 0.0391 J | 13 | 127 | 0.237 | 7.88 | 111 |
| Vert. Delineation | GS-AP-MW-36V | 07/27/2022 | 0.0689 J | 33.9 | 436 | 0.38 | 7.14 | 387 |
| Vert. Delineation | GS-AP-MW-6V | 07/25/2022 | 0.0978 J | 1.52 | 51.8 | 4.56 | 8.66 | 6.09 |
| Vert. Delineation | GS-AP-PZ-16 | 07/26/2022 | 0.0612 J | 13.7 | 4.94 | 0.206 | 9.29 | 38 |
| Vert. Delineation | GS-AP-PZ-18R | 07/27/2022 | 0.0879 J | 63.1 | 4.98 | 0.157 | 7.18 | 48.2 |
| Vert. Delineation | GS-AP-PZ-22 | 08/09/2022 | 0.0448 J | 11.6 | 2.32 | 0.338 | 8.78 | 53.8 |
| Horiz. Delineation | GS-AP-MW-23H | 07/26/2022 | 0.0338 J | 72.4 | 12.9 | 0.0867 J | 5.73 | 322 |
| Horiz. Delineation | GS-AP-MW-24H | 07/27/2022 | 0.0641 J | 41.9 | 3.3 | 0.215 | 6.98 | 6.24 |
| Horiz. Delineation | GS-AP-MW-25HA | 08/03/2022 | 0.15 | 1.86 | 30.5 | 2.07 | 8.55 | 81.8 |
| Horiz. Delineation | GS-AP-MW-26H | 08/10/2022 | <0.03 | 28.7 | 2.33 | 0.131 | 7.13 | 4.09 |
| Horiz. Delineation | GS-AP-MW-27HR | 07/27/2022 | 0.107 | 65.1 | 635 | 0.263 | 7.44 | 593 |

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Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| EPA Appendix III Set | | | | | | | | |
|----------------------|---------------|-------------|------------|--------------|---------------|---------------|-------------|--------------|
| Hydraulic Location | Well | Sample Date | Boron mg/L | Calcium mg/L | Chloride mg/L | Fluoride mg/L | pH_Field SU | Sulfate mg/L |
| Horiz. Delineation | GS-AP-MW-28H | 07/27/2022 | 0.0663 J | 1.45 | 7.71 | 0.179 | 8.43 | 2.87 |
| Horiz. Delineation | GS-AP-MW-29H | 08/03/2022 | 0.399 | 14.5 | 7.1 | 0.359 | 7.83 | 28.3 |
| Horiz. Delineation | GS-AP-MW-30HA | 08/03/2022 | 0.0761 J | 60.3 | 5.91 | 2.2 | 7.17 | 279 |
| Horiz. Delineation | GS-AP-MW-31H | 08/03/2022 | <0.03 | 4.85 | 21.6 | 0.141 | 8.85 | 12.5 |
| Horiz. Delineation | GS-AP-MW-32H | 07/27/2022 | 0.0414 J | 2.86 | 33.2 | 0.161 | 7.88 | 41.3 |
| Horiz. Delineation | GS-AP-MW-33HO | 07/26/2022 | <0.03 | 20.1 | 14.4 | 0.188 | 7.43 | 15.6 |
| Horiz. Delineation | GS-AP-MW-34HO | 07/26/2022 | 0.109 | 107 | 496 | 0.393 | 7.06 | 1420 |
| Horiz. Delineation | GS-AP-MW-35HO | 07/25/2022 | <0.03 | 1.7 | 9.54 | 0.201 | 8.28 | 16 |
| Horiz. Delineation | GS-AP-MW-36H | 07/20/2022 | 0.0316 J | 1.16 | 10.6 | 0.186 | 8.05 | 11 |
| Horiz. Delineation | GS-AP-MW-37HR | 07/26/2022 | <0.03 | 3.48 | 32.1 | 0.143 | 7.88 | 32.2 |
| Horiz. Delineation | GS-AP-MW-38H | 08/10/2022 | 0.0498 J | 15.1 | 59.3 | 0.231 | 7.49 | 58.6 |
| Horiz. Delineation | GS-AP-MW-40H | 08/02/2022 | 0.0327 J | 211 | 12.7 | 0.151 | 6.47 | 732 |
| Horiz. Delineation | GS-AP-MW-41HD | 07/27/2022 | 1.62 | 57.5 | 7.18 | 0.122 J | 7.16 | 116 |
| Horiz. Delineation | GS-AP-MW-41HS | 07/26/2022 | 1.01 | 36.7 | 7.24 | 0.121 J | 6.19 | 109 |
| Horiz. Delineation | GS-AP-MW-42H | 07/27/2022 | 0.05 J | 133 | 9.12 | 0.116 J | 6.59 | 363 |
| Horiz. Delineation | GS-AP-MW-43HO | 08/03/2022 | 0.139 | 5.62 | 84.5 | 0.173 | 8.51 | 250 |
| Horiz. Delineation | GS-AP-MW-44HO | 07/20/2022 | 0.0422 J | 1.26 | 30.1 | 0.146 | 9.02 | 27 |
| Piezometer | GS-AP-MW-16S | 08/02/2022 | <0.03 | 141 | 3.82 | 0.114 J | 12.53 | 7.43 |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| EPA Appendix IV Set | | | | | | | | | | |
|---------------------|---------------|-------------|---------------|--------------|-------------|----------------|--------------|---------------|-------------|---------------|
| Hydraulic Location | Well | Sample Date | Antimony mg/L | Arsenic mg/L | Barium mg/L | Beryllium mg/L | Cadmium mg/L | Chromium mg/L | Cobalt mg/L | Fluoride mg/L |
| Upgradient | GS-AP-MW-17V | 08/09/2022 | <0.000508 | 0.000807 | 0.292 | <0.000406 | <6.8e-005 | 0.000291 J | <6.8e-005 | 0.245 |
| Upgradient | GS-AP-MW-8 | 08/02/2022 | <0.000508 | 0.00016 J | 0.0116 | <0.000406 | <6.8e-005 | 0.000629 J | 0.00124 | 0.0815 J |
| Downgradient | GS-AP-MW-10R | 08/03/2022 | <0.000508 | 0.00109 | 0.524 | <0.000406 | <6.8e-005 | 0.000414 J | 8.87e-005 J | 0.265 |
| Downgradient | GS-AP-MW-11R | 07/19/2022 | <0.000508 | 0.00137 | 0.11 | <0.000406 | <6.8e-005 | 0.000455 J | <6.8e-005 | 0.0992 J |
| Downgradient | GS-AP-MW-12 | 07/19/2022 | 0.00556 | 0.00407 | 0.188 | <0.000406 | <6.8e-005 | 0.000322 J | <6.8e-005 | 0.0983 J |
| Downgradient | GS-AP-MW-12V | 07/20/2022 | 0.000577 J | 0.00102 | 1.21 | <0.000406 | <6.8e-005 | 0.000485 J | <6.8e-005 | 0.18 |
| Downgradient | GS-AP-MW-13R | 07/20/2022 | <0.000508 | 0.016 | 0.0667 | <0.000406 | <6.8e-005 | 0.000261 J | <6.8e-005 | 0.084 J |
| Downgradient | GS-AP-MW-14R | 08/03/2022 | <0.000508 | 0.00142 | 0.221 | <0.000406 | <6.8e-005 | 0.000306 J | <6.8e-005 | 0.145 |
| Downgradient | GS-AP-MW-15 | 08/02/2022 | 0.000663 J | 0.0104 | 0.131 | <0.000406 | <6.8e-005 | 0.000913 J | <6.8e-005 | 0.373 |
| Downgradient | GS-AP-MW-15V | 08/02/2022 | 0.00143 | 0.00733 | 0.253 | <0.000406 | <6.8e-005 | 0.000427 J | <6.8e-005 | 0.206 |
| Downgradient | GS-AP-MW-16D | 08/02/2022 | <0.000508 | <8.1e-005 | 0.355 | <0.000406 | <6.8e-005 | 0.000402 J | <6.8e-005 | 0.112 J |
| Downgradient | GS-AP-MW-17 | 08/08/2022 | <0.000508 | 0.000878 | 0.0875 | <0.000406 | <6.8e-005 | 0.000334 J | <6.8e-005 | 0.257 |
| Downgradient | GS-AP-MW-18R | 08/03/2022 | <0.000508 | 0.000429 | 0.0895 | <0.000406 | <6.8e-005 | 0.000304 J | 0.000564 | 0.0924 J |
| Downgradient | GS-AP-MW-18VR | 08/09/2022 | <0.000508 | 0.00121 | 0.126 | <0.000406 | 8.01e-005 J | 0.000584 J | 0.000256 | 0.133 |
| Downgradient | GS-AP-MW-19 | 08/03/2022 | <0.000508 | 0.00223 | 0.348 | <0.000406 | <6.8e-005 | 0.000412 J | <6.8e-005 | 0.231 |
| Downgradient | GS-AP-MW-1R | 08/02/2022 | <0.000508 | 0.000259 | 0.0679 | <0.000406 | <6.8e-005 | 0.00037 J | <6.8e-005 | 0.177 |
| Downgradient | GS-AP-MW-2 | 07/19/2022 | <0.000508 | 8.33e-005 J | 0.0474 | <0.000406 | <6.8e-005 | 0.000469 J | <6.8e-005 | 0.752 |
| Downgradient | GS-AP-MW-21 | 08/10/2022 | <0.000508 | 0.000495 | 0.135 | <0.000406 | <6.8e-005 | 0.000827 J | <6.8e-005 | 0.186 |
| Downgradient | GS-AP-MW-21V | 08/09/2022 | <0.000508 | 0.00345 | 0.0477 | <0.000406 | <6.8e-005 | 0.000378 J | <6.8e-005 | 0.406 |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| EPA Appendix IV Set | | | | | | | | | |
|---------------------|---------------|-------------|-------------|--------------|--------------|-----------------|---------------|---------------|---------------------------------|
| Hydraulic Location | Well | Sample Date | Lead mg/L | Lithium mg/L | Mercury mg/L | Molybdenum mg/L | Selenium mg/L | Thallium mg/L | Combined Radium 226 + 228 pCi/L |
| Upgradient | GS-AP-MW-17V | 08/09/2022 | <6.8e-005 | 0.0555 | <0.0003 | 0.00298 | <0.000508 | <6.8e-005 | 0.584 U |
| Upgradient | GS-AP-MW-8 | 08/02/2022 | 8.33e-005 J | 0.01 J | <0.0003 | <0.000102 | <0.000508 | <6.8e-005 | 0.154 U |
| Downgradient | GS-AP-MW-10R | 08/03/2022 | <6.8e-005 | 0.0391 | <0.0003 | 0.00163 | <0.000508 | <6.8e-005 | 0.552 U |
| Downgradient | GS-AP-MW-11R | 07/19/2022 | <6.8e-005 | 0.0289 | <0.0003 | <0.000102 | <0.000508 | <6.8e-005 | 0.586 U |
| Downgradient | GS-AP-MW-12 | 07/19/2022 | <6.8e-005 | 0.0631 | <0.0003 | 0.0112 | <0.000508 | <6.8e-005 | 0.934 U |
| Downgradient | GS-AP-MW-12V | 07/20/2022 | <6.8e-005 | 0.0309 | <0.0003 | 0.00204 | <0.000508 | <6.8e-005 | 0.596 U |
| Downgradient | GS-AP-MW-13R | 07/20/2022 | <6.8e-005 | 0.027 | <0.0003 | 0.000155 J | <0.000508 | <6.8e-005 | 0.551 U |
| Downgradient | GS-AP-MW-14R | 08/03/2022 | <6.8e-005 | 0.0265 | <0.0003 | 0.000479 | <0.000508 | <6.8e-005 | 0.55 U |
| Downgradient | GS-AP-MW-15 | 08/02/2022 | <6.8e-005 | 0.529 | <0.0003 | 0.0642 | <0.000508 | <6.8e-005 | 1.12 |
| Downgradient | GS-AP-MW-15V | 08/02/2022 | <6.8e-005 | 0.096 | <0.0003 | 0.0295 | <0.000508 | <6.8e-005 | 0.437 U |
| Downgradient | GS-AP-MW-16D | 08/02/2022 | <6.8e-005 | 0.0343 | <0.0003 | 0.000984 | <0.000508 | <6.8e-005 | 0.696 U |
| Downgradient | GS-AP-MW-17 | 08/08/2022 | <6.8e-005 | 0.0646 | <0.0003 | 0.00154 | <0.000508 | <6.8e-005 | 0.0413 U |
| Downgradient | GS-AP-MW-18R | 08/03/2022 | <6.8e-005 | 0.00863 J | <0.0003 | 0.000529 | <0.000508 | <6.8e-005 | 0.507 U |
| Downgradient | GS-AP-MW-18VR | 08/09/2022 | 0.000634 | 0.059 | <0.0003 | 0.0456 | <0.000508 | 7.72e-005 J | 0.473 U |
| Downgradient | GS-AP-MW-19 | 08/03/2022 | <6.8e-005 | 0.0416 | <0.0003 | 0.00355 | <0.000508 | <6.8e-005 | 0.53 U |
| Downgradient | GS-AP-MW-1R | 08/02/2022 | 0.000135 J | 0.0385 | <0.0003 | 0.00102 | <0.000508 | <6.8e-005 | 0.53 U |
| Downgradient | GS-AP-MW-2 | 07/19/2022 | <6.8e-005 | 0.033 | <0.0003 | 0.00146 | <0.000508 | <6.8e-005 | 0.306 U |
| Downgradient | GS-AP-MW-21 | 08/10/2022 | <6.8e-005 | 0.0868 | <0.0003 | 0.00802 | <0.000508 | <6.8e-005 | 0.395 U |
| Downgradient | GS-AP-MW-21V | 08/09/2022 | <6.8e-005 | 0.0789 | <0.0003 | 0.0509 | <0.000508 | <6.8e-005 | 0.458 U |

Notes:

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2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| EPA Appendix IV Set | | | | | | | | | | |
|---------------------|--------------|-------------|---------------|--------------|-------------|----------------|--------------|---------------|-------------|---------------|
| Hydraulic Location | Well | Sample Date | Antimony mg/L | Arsenic mg/L | Barium mg/L | Beryllium mg/L | Cadmium mg/L | Chromium mg/L | Cobalt mg/L | Fluoride mg/L |
| Downgradient | GS-AP-MW-3 | 07/20/2022 | <0.000508 | 0.000137 J | 0.492 | <0.000406 | <6.8e-005 | 0.000315 J | <6.8e-005 | <0.06 |
| Downgradient | GS-AP-MW-3V | 07/20/2022 | <0.000508 | 0.00228 | 0.0815 | <0.000406 | <6.8e-005 | 0.000397 J | 0.000249 | 0.231 |
| Downgradient | GS-AP-MW-45V | 08/08/2022 | <0.000508 | 0.000618 | 0.0257 | <0.000406 | <6.8e-005 | 0.000882 J | <6.8e-005 | 0.154 |
| Downgradient | GS-AP-MW-46 | 08/02/2022 | <0.000508 | 0.119 | 0.0696 | <0.000406 | <6.8e-005 | 0.000317 J | <6.8e-005 | 0.249 |
| Downgradient | GS-AP-MW-47 | 07/26/2022 | <0.000508 | 0.000423 | 0.728 | <0.000406 | <6.8e-005 | 0.000389 J | 0.000112 J | 0.0601 J |
| Downgradient | GS-AP-MW-5R | 08/02/2022 | <0.000508 | 0.000325 | 0.0605 | <0.000406 | <6.8e-005 | 0.00036 J | <6.8e-005 | 0.144 |
| Downgradient | GS-AP-MW-6D | 07/25/2022 | <0.000508 | 0.114 | 0.544 | <0.000406 | <6.8e-005 | 0.000301 J | <6.8e-005 | 0.1 J |
| Downgradient | GS-AP-MW-6S | 07/26/2022 | 0.000656 J | 0.00935 | 0.0978 | <0.000406 | <6.8e-005 | 0.000359 J | 0.000768 | 0.164 |
| Downgradient | GS-AP-MW-7 | 07/25/2022 | <0.000508 | 0.272 | 0.0677 | <0.000406 | <6.8e-005 | 0.00103 | 0.000372 | 0.112 J |
| Downgradient | GS-AP-MW-9R | 07/19/2022 | <0.000508 | 0.00629 | 0.0339 | <0.000406 | <6.8e-005 | 0.000384 J | <6.8e-005 | 0.245 |
| Downgradient | GS-AP-MW-9V | 07/19/2022 | <0.000508 | 0.000252 | 0.178 | <0.000406 | <6.8e-005 | 0.000323 J | <6.8e-005 | 0.159 |
| Vert. Delineation | GS-AP-MW-23V | 07/26/2022 | <0.000508 | <8.1e-005 | 0.0695 | <0.000406 | <6.8e-005 | 0.000389 J | <6.8e-005 | 0.0773 J |
| Vert. Delineation | GS-AP-MW-31V | 08/03/2022 | <0.000508 | 0.0015 | 0.342 | <0.000406 | <6.8e-005 | 0.000803 J | <6.8e-005 | 0.237 |
| Vert. Delineation | GS-AP-MW-36V | 07/27/2022 | <0.000508 | 0.00447 | 0.114 | <0.000406 | <6.8e-005 | 0.000348 J | 0.000136 J | 0.38 |
| Vert. Delineation | GS-AP-MW-6V | 07/25/2022 | <0.000508 | 0.000844 | 0.161 | <0.000406 | <6.8e-005 | 0.000519 J | 0.000146 J | 4.64 |
| Vert. Delineation | GS-AP-PZ-16 | 07/26/2022 | <0.000508 | 0.00761 | 0.198 | <0.000406 | <6.8e-005 | 0.000449 J | 7.55e-005 J | 0.206 |
| Vert. Delineation | GS-AP-PZ-18R | 07/27/2022 | <0.000508 | 0.00143 | 0.0668 | <0.000406 | <6.8e-005 | 0.000346 J | 0.000105 J | 0.157 |
| Vert. Delineation | GS-AP-PZ-22 | 08/09/2022 | <0.000508 | 0.00231 | 0.106 | <0.000406 | <6.8e-005 | 0.000258 J | <6.8e-005 | 0.338 |
| Horiz. Delineation | GS-AP-MW-23H | 07/26/2022 | <0.000508 | 0.0616 | 0.0154 | <0.000406 | <6.8e-005 | 0.000302 J | 0.000576 | 0.0867 J |
| Horiz. Delineation | GS-AP-MW-24H | 07/27/2022 | <0.000508 | 0.00022 | 1.01 | <0.000406 | <6.8e-005 | 0.000446 J | 0.00029 | 0.215 |

Notes:

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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
07/19/2022 - 08/10/2022

| EPA Appendix IV Set | | | | | | | | | |
|---------------------|--------------|-------------|-------------|--------------|--------------|-----------------|---------------|---------------|---------------------------------|
| Hydraulic Location | Well | Sample Date | Lead mg/L | Lithium mg/L | Mercury mg/L | Molybdenum mg/L | Selenium mg/L | Thallium mg/L | Combined Radium 226 + 228 pCi/L |
| Downgradient | GS-AP-MW-3 | 07/20/2022 | <6.8e-005 | 0.07 | <0.0003 | 0.0066 | <0.000508 | <6.8e-005 | 0.473 U |
| Downgradient | GS-AP-MW-3V | 07/20/2022 | 7.23e-005 J | 0.071 | <0.0003 | 0.0489 | <0.000508 | <6.8e-005 | 0.762 U |
| Downgradient | GS-AP-MW-45V | 08/08/2022 | <6.8e-005 | 0.0486 | <0.0003 | 0.00454 | <0.000508 | <6.8e-005 | 0.469 U |
| Downgradient | GS-AP-MW-46 | 08/02/2022 | <6.8e-005 | 0.0756 | <0.0003 | 0.00955 | <0.000508 | <6.8e-005 | 0.314 U |
| Downgradient | GS-AP-MW-47 | 07/26/2022 | <6.8e-005 | 0.0429 | <0.0003 | 0.00213 | <0.000508 | <6.8e-005 | 0.441 U |
| Downgradient | GS-AP-MW-5R | 08/02/2022 | <6.8e-005 | 0.0827 | <0.0003 | 0.00237 | <0.000508 | <6.8e-005 | 0.479 U |
| Downgradient | GS-AP-MW-6D | 07/25/2022 | 0.000171 J | 0.348 | <0.0003 | 0.011 | <0.000508 | <6.8e-005 | 0.513 U |
| Downgradient | GS-AP-MW-6S | 07/26/2022 | 9.8e-005 J | 0.0665 | <0.0003 | 0.0377 | 0.00086 J | <6.8e-005 | -- |
| Downgradient | GS-AP-MW-7 | 07/25/2022 | 0.000431 | 0.227 | <0.0003 | 0.214 | <0.000508 | <6.8e-005 | 0.455 U |
| Downgradient | GS-AP-MW-9R | 07/19/2022 | <6.8e-005 | 0.0356 | <0.0003 | 0.00308 | <0.000508 | <6.8e-005 | 0.803 U |
| Downgradient | GS-AP-MW-9V | 07/19/2022 | <6.8e-005 | 0.029 | <0.0003 | 0.00146 | <0.000508 | <6.8e-005 | 1.03 |
| Vert. Delineation | GS-AP-MW-23V | 07/26/2022 | <6.8e-005 | 0.0419 | <0.0003 | <0.000102 | <0.000508 | <6.8e-005 | 0.603 U |
| Vert. Delineation | GS-AP-MW-31V | 08/03/2022 | 0.000166 J | 0.0429 | <0.0003 | 0.0243 | <0.000508 | <6.8e-005 | 0.696 U |
| Vert. Delineation | GS-AP-MW-36V | 07/27/2022 | <6.8e-005 | 0.0378 | <0.0003 | 0.0268 | <0.000508 | <6.8e-005 | 0.857 U |
| Vert. Delineation | GS-AP-MW-6V | 07/25/2022 | 0.000278 | 0.138 | <0.0003 | 0.00208 | <0.000508 | <6.8e-005 | 0.536 U |
| Vert. Delineation | GS-AP-PZ-16 | 07/26/2022 | 0.000603 | 0.0839 | <0.0003 | 0.0044 | <0.000508 | <6.8e-005 | 1.13 |
| Vert. Delineation | GS-AP-PZ-18R | 07/27/2022 | <6.8e-005 | 0.0172 J | <0.0003 | 0.000765 | <0.000508 | <6.8e-005 | 0.14 U |
| Vert. Delineation | GS-AP-PZ-22 | 08/09/2022 | <6.8e-005 | 0.071 | <0.0003 | 0.00294 | <0.000508 | <6.8e-005 | 0.481 U |
| Horiz. Delineation | GS-AP-MW-23H | 07/26/2022 | <6.8e-005 | 0.032 | <0.0003 | 0.000783 | <0.000508 | <6.8e-005 | 0.223 U |
| Horiz. Delineation | GS-AP-MW-24H | 07/27/2022 | <6.8e-005 | 0.0253 | <0.0003 | 0.00055 | <0.000508 | <6.8e-005 | 0.833 U |

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- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| EPA Appendix IV Set | | | | | | | | | | |
|---------------------|---------------|-------------|---------------|--------------|-------------|----------------|--------------|---------------|-------------|---------------|
| Hydraulic Location | Well | Sample Date | Antimony mg/L | Arsenic mg/L | Barium mg/L | Beryllium mg/L | Cadmium mg/L | Chromium mg/L | Cobalt mg/L | Fluoride mg/L |
| Horiz. Delineation | GS-AP-MW-25HA | 08/03/2022 | <0.000508 | 0.0103 | 0.232 | <0.000406 | <6.8e-005 | 0.000794 J | 6.81e-005 J | 2.07 |
| Horiz. Delineation | GS-AP-MW-26H | 08/10/2022 | <0.000508 | 0.000161 J | 0.766 | <0.000406 | <6.8e-005 | 0.000311 J | <6.8e-005 | 0.131 |
| Horiz. Delineation | GS-AP-MW-27HR | 07/27/2022 | <0.000508 | 0.00148 | 0.0599 | <0.000406 | <6.8e-005 | 0.000354 J | <6.8e-005 | 0.263 |
| Horiz. Delineation | GS-AP-MW-28H | 07/27/2022 | <0.000508 | 0.000436 | 0.0482 | <0.000406 | <6.8e-005 | 0.000336 J | <6.8e-005 | 0.179 |
| Horiz. Delineation | GS-AP-MW-29H | 08/03/2022 | <0.000508 | 0.00248 | 0.248 | <0.000406 | <6.8e-005 | 0.000265 J | <6.8e-005 | 0.359 |
| Horiz. Delineation | GS-AP-MW-30HA | 08/03/2022 | <0.000508 | 0.00387 | 0.113 | <0.000406 | <6.8e-005 | 0.000398 J | 0.000255 | 2.2 |
| Horiz. Delineation | GS-AP-MW-31H | 08/03/2022 | <0.000508 | 0.000201 J | 0.134 | <0.000406 | <6.8e-005 | 0.00035 J | <6.8e-005 | 0.141 |
| Horiz. Delineation | GS-AP-MW-32H | 07/27/2022 | <0.000508 | 0.000353 | 0.0499 | <0.000406 | <6.8e-005 | 0.000353 J | <6.8e-005 | 0.161 |
| Horiz. Delineation | GS-AP-MW-33HO | 07/26/2022 | <0.000508 | 0.000296 | 0.356 | <0.000406 | <6.8e-005 | 0.000253 J | <6.8e-005 | 0.188 |
| Horiz. Delineation | GS-AP-MW-34HO | 07/26/2022 | 0.00057 J | 0.00117 | 0.0559 | <0.000406 | <6.8e-005 | 0.000307 J | <6.8e-005 | 0.393 |
| Horiz. Delineation | GS-AP-MW-35HO | 07/25/2022 | <0.000508 | 0.000116 J | 0.0497 | <0.000406 | <6.8e-005 | 0.000218 J | <6.8e-005 | 0.201 |
| Horiz. Delineation | GS-AP-MW-36H | 07/20/2022 | <0.000508 | 0.0004 | 0.0393 | <0.000406 | <6.8e-005 | 0.000451 J | <6.8e-005 | 0.186 |
| Horiz. Delineation | GS-AP-MW-37HR | 07/26/2022 | <0.000508 | 0.00101 | 0.0171 | <0.000406 | <6.8e-005 | 0.000407 J | <6.8e-005 | 0.143 |
| Horiz. Delineation | GS-AP-MW-38H | 08/10/2022 | <0.000508 | 0.00294 | 0.286 | <0.000406 | <6.8e-005 | 0.000322 J | <6.8e-005 | 0.231 |
| Horiz. Delineation | GS-AP-MW-40H | 08/02/2022 | <0.000508 | 0.000294 | 0.0306 | <0.000406 | <6.8e-005 | 0.000337 J | 0.000206 | 0.151 |
| Horiz. Delineation | GS-AP-MW-41HD | 07/27/2022 | <0.000508 | 0.00271 | 0.0475 | <0.000406 | <6.8e-005 | 0.000351 J | 0.000979 | 0.122 J |
| Horiz. Delineation | GS-AP-MW-41HS | 07/26/2022 | <0.000508 | 0.000471 | 0.0497 | <0.000406 | <6.8e-005 | 0.000309 J | 0.00237 | 0.121 J |
| Horiz. Delineation | GS-AP-MW-42H | 07/27/2022 | <0.000508 | 0.00938 | 0.0238 | <0.000406 | <6.8e-005 | 0.000306 J | 0.000429 | 0.116 J |
| Horiz. Delineation | GS-AP-MW-43HO | 08/03/2022 | <0.000508 | 0.00109 | 0.0956 | <0.000406 | <6.8e-005 | 0.000257 J | <6.8e-005 | 0.173 |
| Horiz. Delineation | GS-AP-MW-44HO | 07/20/2022 | <0.000508 | 0.000401 | 0.0697 | <0.000406 | <6.8e-005 | 0.000242 J | <6.8e-005 | 0.146 |

Notes:

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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| EPA Appendix IV Set | | | | | | | | | |
|---------------------|---------------|-------------|-------------|--------------|--------------|-----------------|---------------|---------------|---------------------------------|
| Hydraulic Location | Well | Sample Date | Lead mg/L | Lithium mg/L | Mercury mg/L | Molybdenum mg/L | Selenium mg/L | Thallium mg/L | Combined Radium 226 + 228 pCi/L |
| Horiz. Delineation | GS-AP-MW-25HA | 08/03/2022 | 0.000206 | 0.061 | <0.0003 | 0.00758 | <0.000508 | <6.8e-005 | 0.73 U |
| Horiz. Delineation | GS-AP-MW-26H | 08/10/2022 | <6.8e-005 | 0.0924 | <0.0003 | <0.000102 | <0.000508 | <6.8e-005 | 0.178 U |
| Horiz. Delineation | GS-AP-MW-27HR | 07/27/2022 | <6.8e-005 | 0.0935 | <0.0003 | 0.0101 | <0.000508 | <6.8e-005 | 1.63 |
| Horiz. Delineation | GS-AP-MW-28H | 07/27/2022 | <6.8e-005 | 0.0603 | <0.0003 | 0.00336 | <0.000508 | <6.8e-005 | 0.742 U |
| Horiz. Delineation | GS-AP-MW-29H | 08/03/2022 | <6.8e-005 | 0.0811 | <0.0003 | 0.0341 | <0.000508 | <6.8e-005 | 0.535 U |
| Horiz. Delineation | GS-AP-MW-30HA | 08/03/2022 | 0.000194 J | 0.07 | <0.0003 | 0.00614 | <0.000508 | <6.8e-005 | 1.29 U |
| Horiz. Delineation | GS-AP-MW-31H | 08/03/2022 | <6.8e-005 | 0.0512 | <0.0003 | 0.00255 | <0.000508 | <6.8e-005 | 0.32 U |
| Horiz. Delineation | GS-AP-MW-32H | 07/27/2022 | 6.94e-005 J | 0.0456 | <0.0003 | 0.0865 | <0.000508 | <6.8e-005 | 0.994 U |
| Horiz. Delineation | GS-AP-MW-33HO | 07/26/2022 | <6.8e-005 | 0.0501 | <0.0003 | 0.00194 | <0.000508 | <6.8e-005 | 0.771 U |
| Horiz. Delineation | GS-AP-MW-34HO | 07/26/2022 | <6.8e-005 | 0.183 | <0.0003 | 0.0104 | <0.000508 | <6.8e-005 | 0.901 U |
| Horiz. Delineation | GS-AP-MW-35HO | 07/25/2022 | <6.8e-005 | 0.0713 | <0.0003 | 0.000692 | <0.000508 | <6.8e-005 | 0.682 U |
| Horiz. Delineation | GS-AP-MW-36H | 07/20/2022 | <6.8e-005 | 0.0303 | <0.0003 | 0.00183 | <0.000508 | <6.8e-005 | 0.473 U |
| Horiz. Delineation | GS-AP-MW-37HR | 07/26/2022 | <6.8e-005 | 0.0357 | <0.0003 | 0.00536 | <0.000508 | <6.8e-005 | 0.5 U |
| Horiz. Delineation | GS-AP-MW-38H | 08/10/2022 | <6.8e-005 | 0.0705 | <0.0003 | 0.00406 | <0.000508 | <6.8e-005 | 0.411 U |
| Horiz. Delineation | GS-AP-MW-40H | 08/02/2022 | <6.8e-005 | 0.0705 | <0.0003 | 0.00114 | <0.000508 | <6.8e-005 | 0.608 U |
| Horiz. Delineation | GS-AP-MW-41HD | 07/27/2022 | <6.8e-005 | 0.413 | <0.0003 | 0.0351 | <0.000508 | <6.8e-005 | 0.42 U |
| Horiz. Delineation | GS-AP-MW-41HS | 07/26/2022 | <6.8e-005 | 0.0954 | <0.0003 | 0.000889 | <0.000508 | <6.8e-005 | 0.728 U |
| Horiz. Delineation | GS-AP-MW-42H | 07/27/2022 | <6.8e-005 | 0.035 | <0.0003 | 0.00131 | <0.000508 | <6.8e-005 | 1.06 U |
| Horiz. Delineation | GS-AP-MW-43HO | 08/03/2022 | <6.8e-005 | 0.0749 | <0.0003 | 0.00526 | <0.000508 | <6.8e-005 | 0.252 U |
| Horiz. Delineation | GS-AP-MW-44HO | 07/20/2022 | <6.8e-005 | 0.0529 | <0.0003 | 0.00349 | <0.000508 | <6.8e-005 | 0.0778 U |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Gorgas Ash Pond
07/19/2022 - 08/10/2022

| EPA Appendix IV Set | | | | | | | | | | |
|---------------------|--------------|-------------|------------------|-----------------|----------------|-------------------|-----------------|------------------|----------------|------------------|
| Hydraulic Location | Well | Sample Date | Antimony mg/L | Arsenic mg/L | Barium mg/L | Beryllium mg/L | Cadmium mg/L | Chromium mg/L | Cobalt mg/L | Fluoride mg/L |
| Piezometer | GS-AP-MW-16S | 08/02/2022 | <0.000508 | 0.0011 | 0.41 | <0.000406 | <6.8e-005 | 0.000531 J | 0.000299 | 0.114 J |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| EPA Appendix IV Set | | | | | | | | | |
|---------------------|--------------|-------------|--------------|-----------------|-----------------|--------------------|------------------|------------------|--|
| Hydraulic Location | Well | Sample Date | Lead mg/L | Lithium mg/L | Mercury mg/L | Molybdenum mg/L | Selenium mg/L | Thallium mg/L | Combined Radium 226 + 228 pCi/L |
| Piezometer | GS-AP-MW-16S | 08/02/2022 | 0.000128 J | 0.14 | <0.0003 | 0.0446 | 0.000526 J | <6.8e-005 | 1.43 |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|--------------------------------|----------------------------|------------------------------------|--------------------------------------|--------------|--------------|-------------|---------------|
| Hydraulic Location | Well | Sample Date | Alkalinity Total as CaCO3 mg/L | Carbon, Total Organic mg/L | Carbonate Alkalinity as CaCO3 mg/L | Bicarbonate Alkalinity as CaCO3 mg/L | Sulfide mg/L | Silicon mg/L | Silica mg/L | Aluminum mg/L |
| Upgradient | GS-AP-MW-17V | 08/09/2022 | 309 | <1 | 3.15 | 306 | 0 | 10.9 | 23.3 | 0.00763 J |
| Upgradient | GS-AP-MW-8 | 08/02/2022 | 61.1 | 2.82 | NC | 60.8 | 0 | 18.1 | 38.7 | 0.0632 |
| Downgradient | GS-AP-MW-10R | 08/03/2022 | 205 | 1.18 J | 2.09 | 203 | 0 | 12.5 | 26.8 | <0.00609 |
| Downgradient | GS-AP-MW-11R | 07/19/2022 | 190 | <1 | NC | 190 | 0 | 15.2 | 32.5 | <0.00609 |
| Downgradient | GS-AP-MW-12 | 07/19/2022 | 221 | <1 | 5.7 | 215 | 0 | 9.15 | 19.6 | <0.00609 |
| Downgradient | GS-AP-MW-12V | 07/20/2022 | 186 | 1.27 J | 3.66 | 182 | 0 | 12 | 25.7 | 0.0622 |
| Downgradient | GS-AP-MW-13R | 07/20/2022 | 138 | <1 | NC | 138 | 0 | 12.9 | 27.6 | <0.00609 |
| Downgradient | GS-AP-MW-14R | 08/03/2022 | 176 | 1.49 J | 2.2 | 174 | 1 | 13 | 27.8 | 0.0102 |
| Downgradient | GS-AP-MW-15 | 08/02/2022 | 553 | 15.8 | 212 | 3.33 | 1 | 44.6 | 95.4 | 1.29 |
| Downgradient | GS-AP-MW-15V | 08/02/2022 | 217 | 10.6 | 4.68 | 212 | 0 | 8.04 | 17.2 | 0.012 |
| Downgradient | GS-AP-MW-16D | 08/02/2022 | 177 | <1 | 1.34 | 176 | 0 | 11 | 23.5 | 0.0327 |
| Downgradient | GS-AP-MW-17 | 08/08/2022 | 410 | <1 | 15.8 | 394 | 0 | 8.11 | 17.4 | 0.0252 |
| Downgradient | GS-AP-MW-18R | 08/03/2022 | 101 | <1 | 0.52 | 100 | 0 | 11.8 | 25.3 | <0.00609 |
| Downgradient | GS-AP-MW-18VR | 08/09/2022 | 228 | <1 | 4.7 | 223 | 0 | 5.73 | 12.3 | 0.21 |
| Downgradient | GS-AP-MW-19 | 08/03/2022 | 272 | 1.04 J | 3.18 | 269 | 0 | 9.89 | 21.2 | 0.0094 J |
| Downgradient | GS-AP-MW-1R | 08/02/2022 | 264 | 1.27 J | 12.4 | 251 | 0 | 5.03 | 10.8 | 0.209 |
| Downgradient | GS-AP-MW-2 | 07/19/2022 | 272 | <1 | 57.7 | 213 | 1 | 5.23 | 11.2 | 0.0993 |
| Downgradient | GS-AP-MW-21 | 08/10/2022 | 163 | 1.44 J | 35.1 | 126 | 3 | 4.5 | 9.63 | 0.0707 |
| Downgradient | GS-AP-MW-21V | 08/09/2022 | 208 | 4.37 | 3.34 | 205 | 0 | 5.43 | 11.6 | 0.0428 |
| Downgradient | GS-AP-MW-3 | 07/20/2022 | 173 | <1 | 1.69 | 171 | 0 | 5.34 | 11.4 | 0.0222 |

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- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|--------------|---------------------------|---------------|-------------|----------------------|-----------------|----------------------|----------------|
| Hydraulic Location | Well | Sample Date | Sulfate mg/L | Nitrate Nitrite mg/L as N | Chloride mg/L | Sodium mg/L | Manganese Total mg/L | Iron Total mg/L | Magnesium Total mg/L | Potassium mg/L |
| Upgradient | GS-AP-MW-17V | 08/09/2022 | 8.13 | <0.2 | 3.09 | 101 | 0.0299 | 1.08 | 12.5 | 2.21 |
| Upgradient | GS-AP-MW-8 | 08/02/2022 | 4.18 | <0.2 | 4.35 | 11.4 | 0.15 | 0.342 | 8.33 | 0.808 |
| Downgradient | GS-AP-MW-10R | 08/03/2022 | 30.9 | <0.2 | 33.5 | 44.5 | 0.0702 | 0.726 | 17.6 | 10.3 |
| Downgradient | GS-AP-MW-11R | 07/19/2022 | 39.4 | <0.2 | 5.38 | 14.8 | 0.0713 | 1.8 | 16.8 | 1.22 |
| Downgradient | GS-AP-MW-12 | 07/19/2022 | 18.5 | 0.202 J | 2.99 | 23.3 | 0.0323 | 0.376 | 10.8 | 2.22 |
| Downgradient | GS-AP-MW-12V | 07/20/2022 | 1.08 J | <0.2 | 3.85 | 17.3 | 0.0329 | 0.349 | 9.89 | 2.67 |
| Downgradient | GS-AP-MW-13R | 07/20/2022 | 38.9 | <0.2 | 17.6 | 18.8 | 0.0515 | 1.32 | 13.1 | 1.39 |
| Downgradient | GS-AP-MW-14R | 08/03/2022 | 24.7 | <0.2 | 16.1 | 37.7 | 0.0496 | 0.622 | 14.1 | 2.82 |
| Downgradient | GS-AP-MW-15 | 08/02/2022 | 9.11 | <0.2 | 4.36 | 248 | 0.00033 | 0.0216 J | 0.542 | 8.83 |
| Downgradient | GS-AP-MW-15V | 08/02/2022 | 218 | 0.788 | 126 | 248 | 0.0119 | 0.0245 J | 6.18 | 12.3 |
| Downgradient | GS-AP-MW-16D | 08/02/2022 | 15.6 | <0.2 | 3.65 | 28.9 | 0.0119 | 0.267 | 12.3 | 1.5 |
| Downgradient | GS-AP-MW-17 | 08/08/2022 | 8.35 | <0.2 | 6.21 | 209 | 0.00523 | 0.0873 | 0.681 | 0.918 |
| Downgradient | GS-AP-MW-18R | 08/03/2022 | 21.2 | <0.2 | 4.34 | 13.3 | 0.184 | 4.18 | 7.71 | 1.33 |
| Downgradient | GS-AP-MW-18VR | 08/09/2022 | 5.54 | <0.2 | 3.31 | 111 | 0.00608 | 0.486 | 0.82 | 0.928 |
| Downgradient | GS-AP-MW-19 | 08/03/2022 | 17.1 | <0.2 | 5.35 | 56.7 | 0.0252 | 0.423 | 16.3 | 2.26 |
| Downgradient | GS-AP-MW-1R | 08/02/2022 | 4.28 | <0.2 | 5.38 | 137 | 0.00359 | 0.158 | 0.277 J | 0.471 J |
| Downgradient | GS-AP-MW-2 | 07/19/2022 | 19.4 | <0.2 | 4.42 | 141 | 0.000808 | 0.0494 | 0.114 J | 0.363 J |
| Downgradient | GS-AP-MW-21 | 08/10/2022 | 245 | <0.2 | 44 | 221 | 0.000819 | 0.0156 J | 0.484 | 1.37 |
| Downgradient | GS-AP-MW-21V | 08/09/2022 | 360 | <0.2 | 327 | 394 | 0.0203 | 0.0764 | 8.31 | 52.2 |
| Downgradient | GS-AP-MW-3 | 07/20/2022 | 78.6 | <0.2 | 15.3 | 97.8 | 0.0956 | 1.74 | 7.29 | 1.13 |

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
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7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Analytical Results Summary
Plant Gorgas Ash Pond
07/19/2022 - 08/10/2022

| General Chemistry and MNA Parameters | | | |
|--------------------------------------|---------------|-------------|--------------|
| Hydraulic Location | Well | Sample Date | Calcium mg/L |
| Upgradient | GS-AP-MW-17V | 08/09/2022 | 31.4 |
| Upgradient | GS-AP-MW-8 | 08/02/2022 | 5.28 |
| Downgradient | GS-AP-MW-10R | 08/03/2022 | 46.6 |
| Downgradient | GS-AP-MW-11R | 07/19/2022 | 56.8 |
| Downgradient | GS-AP-MW-12 | 07/19/2022 | 37.6 |
| Downgradient | GS-AP-MW-12V | 07/20/2022 | 47.5 |
| Downgradient | GS-AP-MW-13R | 07/20/2022 | 31.8 |
| Downgradient | GS-AP-MW-14R | 08/03/2022 | 35.3 |
| Downgradient | GS-AP-MW-15 | 08/02/2022 | 3.31 |
| Downgradient | GS-AP-MW-15V | 08/02/2022 | 22.2 |
| Downgradient | GS-AP-MW-16D | 08/02/2022 | 33.8 |
| Downgradient | GS-AP-MW-17 | 08/08/2022 | 2.44 |
| Downgradient | GS-AP-MW-18R | 08/03/2022 | 30.8 |
| Downgradient | GS-AP-MW-18VR | 08/09/2022 | 2.49 |
| Downgradient | GS-AP-MW-19 | 08/03/2022 | 56.4 |
| Downgradient | GS-AP-MW-1R | 08/02/2022 | 0.888 |
| Downgradient | GS-AP-MW-2 | 07/19/2022 | 0.359 J |
| Downgradient | GS-AP-MW-21 | 08/10/2022 | 3.49 |
| Downgradient | GS-AP-MW-21V | 08/09/2022 | 33 |
| Downgradient | GS-AP-MW-3 | 07/20/2022 | 17.6 |

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- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|--------------------------------|----------------------------|------------------------------------|--------------------------------------|--------------|--------------|-------------|---------------|
| Hydraulic Location | Well | Sample Date | Alkalinity Total as CaCO3 mg/L | Carbon, Total Organic mg/L | Carbonate Alkalinity as CaCO3 mg/L | Bicarbonate Alkalinity as CaCO3 mg/L | Sulfide mg/L | Silicon mg/L | Silica mg/L | Aluminum mg/L |
| Downgradient | GS-AP-MW-3V | 07/20/2022 | 267 | 12.8 | 1.2 | 266 | 0 | 6.42 | 13.7 | 0.0269 |
| Downgradient | GS-AP-MW-45V | 08/08/2022 | 168 | 1.32 J | 2.64 | 165 | 3 | 6.21 | 13.3 | 0.0638 |
| Downgradient | GS-AP-MW-46 | 08/02/2022 | 201 | 1.8 J | 5.07 | 196 | 6 | 4.89 | 10.5 | 0.0114 |
| Downgradient | GS-AP-MW-47 | 07/26/2022 | 150 | 1.08 J | 1.14 | 149 | 0 | 11.1 | 23.8 | 0.0111 |
| Downgradient | GS-AP-MW-5R | 08/02/2022 | 240 | 2.56 | 4.03 | 236 | 0 | 12.5 | 26.8 | <0.00609 |
| Downgradient | GS-AP-MW-6D | 07/25/2022 | 206 | 1.45 J | 1.33 | 205 | 3 | 6.69 | 14.3 | <0.00609 |
| Downgradient | GS-AP-MW-6S | 07/26/2022 | 113 | 1.25 J | 0.76 | 112 | 0 | 5.43 | 11.6 | 0.0331 |
| Downgradient | GS-AP-MW-7 | 07/25/2022 | 111 | 1.04 J | 0.88 | 110 | 0 | 5.75 | 12.3 | 0.345 |
| Downgradient | GS-AP-MW-9R | 07/19/2022 | 127 | 1.06 J | NC | 127 | 1 | 14.5 | 31 | <0.00609 |
| Downgradient | GS-AP-MW-9V | 07/19/2022 | 242 | 2.26 | 0.61 | 241 | 2 | 15.4 | 33 | <0.00609 |
| Vert. Delineation | GS-AP-MW-23V | 07/26/2022 | 272 | 1.39 J | 3.33 | 269 | 0 | 14.2 | 30.4 | 0.0247 |
| Vert. Delineation | GS-AP-MW-31V | 08/03/2022 | 350 | 1.86 J | 5.5 | 344 | 0 | 6.58 | 14.1 | 0.0435 |
| Vert. Delineation | GS-AP-MW-36V | 07/27/2022 | 298 | 8.84 | 1.01 | 297 | 2 | 7.38 | 15.8 | 0.0153 |
| Vert. Delineation | GS-AP-MW-6V | 07/25/2022 | 673 | 9.04 | 30.9 | 642 | 0 | 4.35 | 9.31 | 0.187 |
| Vert. Delineation | GS-AP-PZ-16 | 07/26/2022 | 302 | 1.68 J | 47.5 | 253 | 1 | 12.4 | 26.5 | 0.142 |
| Vert. Delineation | GS-AP-PZ-18R | 07/27/2022 | 211 | <1 | 0.77 | 210 | 0 | 11.4 | 24.4 | <0.00609 |
| Vert. Delineation | GS-AP-PZ-22 | 08/09/2022 | 282 | 1.08 J | 5.81 | 276 | 0 | 6.24 | 13.4 | <0.00609 |
| Horiz. Delineation | GS-AP-MW-23H | 07/26/2022 | 76.8 | <1 | NC | 76.8 | 0 | 12.9 | 27.6 | <0.00609 |
| Horiz. Delineation | GS-AP-MW-24H | 07/27/2022 | 219 | <1 | 1.82 | 217 | 0 | 13.5 | 28.9 | 0.0352 |
| Horiz. Delineation | GS-AP-MW-25HA | 08/03/2022 | 637 | 16.4 | 38 | 599 | 2 | 7.27 | 15.6 | 0.665 |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|-----------------|---------------------------------|------------------|----------------|----------------------------|--------------------|----------------------------|-------------------|
| Hydraulic Location | Well | Sample Date | Sulfate mg/L | Nitrate Nitrite mg/L as N | Chloride mg/L | Sodium mg/L | Manganese Total mg/L | Iron Total mg/L | Magnesium Total mg/L | Potassium mg/L |
| Downgradient | GS-AP-MW-3V | 07/20/2022 | 454 | <0.2 | 399 | 593 | 0.0608 | 0.492 | 8.01 | 51.3 |
| Downgradient | GS-AP-MW-45V | 08/08/2022 | 273 | <0.2 | 58.8 | 254 | 0.0236 | 0.104 | 2.12 | 9.9 |
| Downgradient | GS-AP-MW-46 | 08/02/2022 | 200 | <0.2 | 37 | 232 | 0.00104 | 0.00867 J | 0.4 J | 0.613 |
| Downgradient | GS-AP-MW-47 | 07/26/2022 | 16.7 | <0.2 | 15.4 | 30.8 | 0.0322 | 0.364 | 10.5 | 4.55 |
| Downgradient | GS-AP-MW-5R | 08/02/2022 | 294 | <0.2 | 54.5 | 113 | 0.139 | 1.5 | 41.1 | 9.6 |
| Downgradient | GS-AP-MW-6D | 07/25/2022 | 57.7 | <0.2 | 9.42 | 27.4 | 0.197 | 0.022 J | 15.8 | 2.43 |
| Downgradient | GS-AP-MW-6S | 07/26/2022 | 106 | 0.289 J | 22.9 | 11.9 | 3.17 | 8.09 | 21.2 | 4.03 |
| Downgradient | GS-AP-MW-7 | 07/25/2022 | 140 | <0.2 | 7.86 | 106 | 0.0479 | 0.952 | 3.87 | 1.35 |
| Downgradient | GS-AP-MW-9R | 07/19/2022 | 86.6 | <0.2 | 24.5 | 26.9 | 0.182 | 1.57 | 18.8 | 3.21 |
| Downgradient | GS-AP-MW-9V | 07/19/2022 | 37.1 | <0.2 | 18.8 | 52.3 | 0.0352 | 0.245 | 15.4 | 3.05 |
| Vert. Delineation | GS-AP-MW-23V | 07/26/2022 | 286 | <0.2 | 3.49 | 45.9 | 0.141 | 0.343 | 38.4 | 2.37 |
| Vert. Delineation | GS-AP-MW-31V | 08/03/2022 | 111 | <0.2 | 127 | 296 | 0.0355 | 0.0902 | 4.09 | 20.4 |
| Vert. Delineation | GS-AP-MW-36V | 07/27/2022 | 387 | <0.2 | 436 | 438 | 0.0725 | 0.517 | 12.7 | 61.1 |
| Vert. Delineation | GS-AP-MW-6V | 07/25/2022 | 2.62 | <0.2 | 50.7 | 391 | 0.00938 | 0.208 | 0.537 | 1.41 |
| Vert. Delineation | GS-AP-PZ-16 | 07/26/2022 | 38 | <0.2 | 4.94 | 149 | 0.00448 | 0.146 | 2.08 | 3.42 |
| Vert. Delineation | GS-AP-PZ-18R | 07/27/2022 | 48.2 | <0.2 | 4.98 | 18.8 | 0.0605 | 0.743 | 18.9 | 1.25 |
| Vert. Delineation | GS-AP-PZ-22 | 08/09/2022 | 53.8 | <0.2 | 2.32 | 145 | 0.0386 | 0.978 | 6.89 | 3.01 |
| Horiz. Delineation | GS-AP-MW-23H | 07/26/2022 | 322 | <0.2 | 12.9 | 22.9 | 1.51 | 50.2 | 35.1 | 2.49 |
| Horiz. Delineation | GS-AP-MW-24H | 07/27/2022 | 6.24 | <0.2 | 3.3 | 32.9 | 0.104 | 2 | 14.2 | 1.46 |
| Horiz. Delineation | GS-AP-MW-25HA | 08/03/2022 | 81.8 | <0.2 | 30.5 | 375 | 0.00691 | 0.326 | 0.718 | 1.35 |

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

**Analytical Results Summary
Plant Gorgas Ash Pond
07/19/2022 - 08/10/2022**

| General Chemistry and MNA Parameters | | | |
|--------------------------------------|---------------|-------------|--------------|
| Hydraulic Location | Well | Sample Date | Calcium mg/L |
| Downgradient | GS-AP-MW-3V | 07/20/2022 | 22.1 |
| Downgradient | GS-AP-MW-45V | 08/08/2022 | 6.3 |
| Downgradient | GS-AP-MW-46 | 08/02/2022 | 1.21 |
| Downgradient | GS-AP-MW-47 | 07/26/2022 | 29 |
| Downgradient | GS-AP-MW-5R | 08/02/2022 | 107 |
| Downgradient | GS-AP-MW-6D | 07/25/2022 | 57.9 |
| Downgradient | GS-AP-MW-6S | 07/26/2022 | 51.8 |
| Downgradient | GS-AP-MW-7 | 07/25/2022 | 10.6 |
| Downgradient | GS-AP-MW-9R | 07/19/2022 | 52 |
| Downgradient | GS-AP-MW-9V | 07/19/2022 | 54.7 |
| Vert. Delineation | GS-AP-MW-23V | 07/26/2022 | 138 |
| Vert. Delineation | GS-AP-MW-31V | 08/03/2022 | 13 |
| Vert. Delineation | GS-AP-MW-36V | 07/27/2022 | 33.9 |
| Vert. Delineation | GS-AP-MW-6V | 07/25/2022 | 1.52 |
| Vert. Delineation | GS-AP-PZ-16 | 07/26/2022 | 13.7 |
| Vert. Delineation | GS-AP-PZ-18R | 07/27/2022 | 63.1 |
| Vert. Delineation | GS-AP-PZ-22 | 08/09/2022 | 11.6 |
| Horiz. Delineation | GS-AP-MW-23H | 07/26/2022 | 72.4 |
| Horiz. Delineation | GS-AP-MW-24H | 07/27/2022 | 41.9 |
| Horiz. Delineation | GS-AP-MW-25HA | 08/03/2022 | 1.86 |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
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3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|--------------------------------|----------------------------|------------------------------------|--------------------------------------|--------------|--------------|-------------|---------------|
| Hydraulic Location | Well | Sample Date | Alkalinity Total as CaCO3 mg/L | Carbon, Total Organic mg/L | Carbonate Alkalinity as CaCO3 mg/L | Bicarbonate Alkalinity as CaCO3 mg/L | Sulfide mg/L | Silicon mg/L | Silica mg/L | Aluminum mg/L |
| Horiz. Delineation | GS-AP-MW-26H | 08/10/2022 | 244 | 1.02 J | 4.8 | 239 | 0 | 11.1 | 23.8 | 0.0171 |
| Horiz. Delineation | GS-AP-MW-27HR | 07/27/2022 | 294 | 15.7 | 1.69 | 292 | 4 | 7.67 | 16.4 | 0.0303 |
| Horiz. Delineation | GS-AP-MW-28H | 07/27/2022 | 387 | <1 | 14.9 | 372 | 0 | 7.97 | 17.1 | 0.0261 |
| Horiz. Delineation | GS-AP-MW-29H | 08/03/2022 | 285 | 1.18 J | 4.48 | 280 | 0 | 10 | 21.4 | 0.00816 J |
| Horiz. Delineation | GS-AP-MW-30HA | 08/03/2022 | 313 | 2.44 | 1.57 | 311 | 0 | 11.5 | 24.6 | 0.159 |
| Horiz. Delineation | GS-AP-MW-31H | 08/03/2022 | 288 | 1.05 J | 15.1 | 273 | 3 | 7.81 | 16.7 | 0.0241 |
| Horiz. Delineation | GS-AP-MW-32H | 07/27/2022 | 224 | 1.08 J | 4.22 | 220 | 0 | 5.3 | 11.3 | 0.0663 |
| Horiz. Delineation | GS-AP-MW-33HO | 07/26/2022 | 235 | 1.37 J | 2.94 | 232 | 2 | 9.39 | 20.1 | 0.00816 J |
| Horiz. Delineation | GS-AP-MW-34HO | 07/26/2022 | 238 | 7.54 | 0.93 | 237 | 2 | 5.74 | 12.3 | 0.00815 J |
| Horiz. Delineation | GS-AP-MW-35HO | 07/25/2022 | 267 | <1 | 7.88 | 259 | 0 | 9.23 | 19.8 | 0.0443 |
| Horiz. Delineation | GS-AP-MW-36H | 07/20/2022 | 208 | 1.2 J | 5.87 | 202 | 0 | 7.09 | 15.2 | 0.124 |
| Horiz. Delineation | GS-AP-MW-37HR | 07/26/2022 | 206 | 1.21 J | 2.7 | 203 | 0 | 8.8 | 18.8 | 0.0325 |
| Horiz. Delineation | GS-AP-MW-38H | 08/10/2022 | 254 | 5.07 | 5.23 | 249 | 0 | 7.96 | 17 | 0.0454 |
| Horiz. Delineation | GS-AP-MW-40H | 08/02/2022 | 220 | 1.79 J | 2.3 | 218 | 0 | 12.4 | 26.5 | <0.00609 |
| Horiz. Delineation | GS-AP-MW-41HD | 07/27/2022 | 128 | <1 | 1.31 | 127 | 0 | 7.33 | 15.7 | <0.00609 |
| Horiz. Delineation | GS-AP-MW-41HS | 07/26/2022 | 112 | 1.01 J | NC | 112 | 0 | 8.7 | 18.6 | 0.0176 |
| Horiz. Delineation | GS-AP-MW-42H | 07/27/2022 | 213 | 1.15 J | 1.09 | 212 | -- | 10.8 | 23.1 | <0.00609 |
| Horiz. Delineation | GS-AP-MW-43HO | 08/03/2022 | 277 | 4.09 | 3.97 | 273 | 10 | 6.1 | 13.1 | 0.0604 |
| Horiz. Delineation | GS-AP-MW-44HO | 07/20/2022 | 432 | 1.39 J | 35.5 | 396 | 5 | 5.12 | 11 | 0.0382 |
| Piezometer | GS-AP-MW-16S | 08/02/2022 | 758 | 2.71 | -- | -- | 0 | 2.23 | 4.77 | 3.6 |

Notes:

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- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

**Analytical Results Summary
Plant Gorgas Ash Pond
07/19/2022 - 08/10/2022**

| General Chemistry and MNA Parameters | | | | | | | | | | |
|--------------------------------------|---------------|-------------|-----------------|---------------------------------|------------------|----------------|----------------------------|--------------------|----------------------------|-------------------|
| Hydraulic Location | Well | Sample Date | Sulfate mg/L | Nitrate Nitrite mg/L as N | Chloride mg/L | Sodium mg/L | Manganese Total mg/L | Iron Total mg/L | Magnesium Total mg/L | Potassium mg/L |
| Horiz. Delineation | GS-AP-MW-26H | 08/10/2022 | 4.09 | <0.2 | 2.33 | 73.3 | 0.0181 | 0.94 | 12.2 | 2.55 |
| Horiz. Delineation | GS-AP-MW-27HR | 07/27/2022 | 593 | <0.2 | 635 | 862 | 0.426 | 0.113 | 14.5 | 21.8 |
| Horiz. Delineation | GS-AP-MW-28H | 07/27/2022 | 2.87 | <0.2 | 7.71 | 202 | 0.00554 | 0.0807 | 0.494 | 0.887 |
| Horiz. Delineation | GS-AP-MW-29H | 08/03/2022 | 28.3 | <0.2 | 7.1 | 143 | 0.00933 | 0.204 | 5.1 | 1.45 |
| Horiz. Delineation | GS-AP-MW-30HA | 08/03/2022 | 279 | <0.2 | 5.91 | 226 | 0.227 | 3.69 | 9.3 | 5.49 |
| Horiz. Delineation | GS-AP-MW-31H | 08/03/2022 | 12.5 | <0.2 | 21.6 | 161 | 0.00764 | 0.0128 J | 1.84 | 1.39 |
| Horiz. Delineation | GS-AP-MW-32H | 07/27/2022 | 41.3 | <0.2 | 33.2 | 150 | 0.00753 | 0.0709 | 0.583 | 2.59 |
| Horiz. Delineation | GS-AP-MW-33HO | 07/26/2022 | 15.6 | <0.2 | 14.4 | 74.2 | 0.0337 | 0.108 | 8.12 | 3.69 |
| Horiz. Delineation | GS-AP-MW-34HO | 07/26/2022 | 1420 | <0.2 | 496 | 843 | 0.209 | 0.418 | 30.7 | 72.1 |
| Horiz. Delineation | GS-AP-MW-35HO | 07/25/2022 | 16 | <0.2 | 9.54 | 118 | 0.00527 | 0.0384 J | 0.376 J | 1.16 |
| Horiz. Delineation | GS-AP-MW-36H | 07/20/2022 | 11 | <0.2 | 10.6 | 98.2 | 0.00341 | 0.094 | 0.309 J | 2.05 |
| Horiz. Delineation | GS-AP-MW-37HR | 07/26/2022 | 32.2 | <0.2 | 32.1 | 153 | 0.0169 | 0.0555 | 1.17 | 8.86 |
| Horiz. Delineation | GS-AP-MW-38H | 08/10/2022 | 58.6 | <0.2 | 59.3 | 154 | 0.0333 | 0.109 | 4.89 | 6.77 |
| Horiz. Delineation | GS-AP-MW-40H | 08/02/2022 | 732 | <0.2 | 12.7 | 66.9 | 0.346 | 2.6 | 95.9 | 4.57 |
| Horiz. Delineation | GS-AP-MW-41HD | 07/27/2022 | 116 | <0.2 | 7.18 | 20.4 | 0.636 | 0.0186 J | 18.3 | 1.74 |
| Horiz. Delineation | GS-AP-MW-41HS | 07/26/2022 | 109 | <0.2 | 7.24 | 22.3 | 0.205 | 0.614 | 22.2 | 1.92 |
| Horiz. Delineation | GS-AP-MW-42H | 07/27/2022 | 363 | <0.2 | 9.12 | 36.2 | 0.982 | 4.35 | 52.6 | 2.15 |
| Horiz. Delineation | GS-AP-MW-43HO | 08/03/2022 | 250 | <0.2 | 84.5 | 334 | 0.00684 | 0.0222 J | 1.61 | 4.32 |
| Horiz. Delineation | GS-AP-MW-44HO | 07/20/2022 | 27 | <0.2 | 30.1 | 207 | 0.00136 | 0.0191 J | 0.306 J | 0.684 |
| Piezometer | GS-AP-MW-16S | 08/02/2022 | 7.43 | 0.403 | 3.82 | 187 | 0.000306 | 0.0671 | <0.021315 | 5.9 |

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Analytical Results Summary Plant Gorgas Ash Pond 07/19/2022 - 08/10/2022

| General Chemistry and MNA Parameters | | | |
|--------------------------------------|---------------|-------------|--------------|
| Hydraulic Location | Well | Sample Date | Calcium mg/L |
| Horiz. Delineation | GS-AP-MW-26H | 08/10/2022 | 28.7 |
| Horiz. Delineation | GS-AP-MW-27HR | 07/27/2022 | 65.1 |
| Horiz. Delineation | GS-AP-MW-28H | 07/27/2022 | 1.45 |
| Horiz. Delineation | GS-AP-MW-29H | 08/03/2022 | 14.5 |
| Horiz. Delineation | GS-AP-MW-30HA | 08/03/2022 | 60.3 |
| Horiz. Delineation | GS-AP-MW-31H | 08/03/2022 | 4.85 |
| Horiz. Delineation | GS-AP-MW-32H | 07/27/2022 | 2.86 |
| Horiz. Delineation | GS-AP-MW-33HO | 07/26/2022 | 20.1 |
| Horiz. Delineation | GS-AP-MW-34HO | 07/26/2022 | 107 |
| Horiz. Delineation | GS-AP-MW-35HO | 07/25/2022 | 1.7 |
| Horiz. Delineation | GS-AP-MW-36H | 07/20/2022 | 1.16 |
| Horiz. Delineation | GS-AP-MW-37HR | 07/26/2022 | 3.48 |
| Horiz. Delineation | GS-AP-MW-38H | 08/10/2022 | 15.1 |
| Horiz. Delineation | GS-AP-MW-40H | 08/02/2022 | 211 |
| Horiz. Delineation | GS-AP-MW-41HD | 07/27/2022 | 57.5 |
| Horiz. Delineation | GS-AP-MW-41HS | 07/26/2022 | 36.7 |
| Horiz. Delineation | GS-AP-MW-42H | 07/27/2022 | 133 |
| Horiz. Delineation | GS-AP-MW-43HO | 08/03/2022 | 5.62 |
| Horiz. Delineation | GS-AP-MW-44HO | 07/20/2022 | 1.26 |
| Piezometer | GS-AP-MW-16S | 08/02/2022 | 141 |

Notes:

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2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation
7. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Appendix A



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|-------------|
| | | GS-AP-MW-10R | | GS-AP-MW-11R | | GS-AP-MW-13R | | GS-AP-MW-14R | | GS-AP-MW-18R | | GS-AP-MW- |
| | | 03/01/2022 | 08/03/2022 | 03/01/2022 | 07/19/2022 | 03/01/2022 | 07/20/2022 | 02/28/2022 | 08/03/2022 | 02/22/2022 | 08/03/2022 | 02/22/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | <0.03 | <0.03 | 0.0851 J | 0.111 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | 0.0488 J |
| Calcium | mg/L | 39.8 | 46.6 | 45.3 | 49.8 | 32 | 33.6 | 33.7 | 35.3 | 20.3 | 30 | 5.79 |
| Chloride | mg/L | 37.5 | 33.5 | 5.08 | 5.4 | 19.2 | 17.6 | 38.1 | 16.1 | 3.41 | 4.34 | 15.3 |
| Fluoride | mg/L | 0.278 | 0.265 | 0.143 | 0.107 J | 0.122 | 0.084 J | 0.215 | 0.145 | 0.118 | 0.0797 J | 0.199 |
| pH_Field | SU | 6.87 | 6.7 | 6.68 | 6.13 | 6.47 | 6.39 | 7.04 | 6.44 | 6.29 | 6.46 | 7.88 |
| Sulfate | mg/L | 21.6 | 30.9 | 39.4 | 39.4 | 38 | 38.9 | 33.3 | 24.7 | 27 | 20.7 | 13 |
| TDS | mg/L | 250 | 313 | 244 | 251 | 201 | 210 | 305 | 245 | 136 | 167 | 298 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 |
| Arsenic | mg/L | 0.000604 | 0.00109 | 0.00134 | 0.00104 | 0.00828 | 0.016 | 0.00231 | 0.00142 | 0.000307 | 0.000442 | 0.00171 |
| Barium | mg/L | 0.608 | 0.524 | 0.105 | 0.107 | 0.0613 | 0.0667 | 0.174 | 0.215 | 0.0713 | 0.0877 | 0.187 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | 0.000237 J | 0.000227 J | <0.000203 | 0.000455 J | <0.000203 | 0.000284 J | <0.000203 | 0.000306 J | <0.000203 | 0.000304 J | <0.000203 |
| Cobalt | mg/L | 0.00014 J | 7.7e-005 J | 0.000116 J | <6.8e-005 | <6.8e-005 | <6.8e-005 | 0.000147 J | <6.8e-005 | 0.000679 | 0.000525 | 9.32e-005 J |
| Combined Radium | pCi/L | 1.05 U | 0.552 U | 0.757 U | 0.586 U | 0.656 U | 0.551 U | 0.801 U | 0.55 U | 0.961 U | 0.507 U | 0.187 U |
| Lead | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | 8.57e-005 J | <6.8e-005 | 8.95e-005 J |
| Lithium | mg/L | 0.0349 | 0.0391 | 0.0281 | 0.0286 | 0.0272 | 0.028 | 0.0228 | 0.0234 | <0.007105 | 0.00863 J | 0.0446 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.0028 | 0.00163 | 0.000151 J | <0.000102 | 0.000611 | 0.000155 J | 0.000788 | 0.000479 | 0.000225 | 0.000529 | 0.0336 |

Notes:

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2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|-------------|------------|--------------|------------|---------------|------------|--------------|------------|--------------|------------|
| | | GS-AP-MW- | GS-AP-MW-1R | | GS-AP-MW-23V | | GS-AP-MW-27HR | | GS-AP-MW-31V | | GS-AP-MW-36V | |
| | | 08/09/2022 | 03/01/2022 | 08/02/2022 | 02/23/2022 | 07/26/2022 | 02/22/2022 | 07/27/2022 | 02/22/2022 | 08/03/2022 | 02/22/2022 | 07/27/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0475 J | 0.0574 J | 0.0596 J | 0.0973 J | 0.0772 J | 0.0519 J | 0.107 | <0.03 | 0.0391 J | 0.0402 J | 0.0685 J |
| Calcium | mg/L | 2.49 | 1.07 | 0.888 | 140 | 173 | 12.3 | 86.8 | 7.38 | 13 | 9.35 | 33.9 |
| Chloride | mg/L | 3.31 | 5.25 | 5.38 | 3.21 | 3.49 | 253 | 635 | 32.1 | 127 | 55.9 | 436 |
| Fluoride | mg/L | 0.133 | 0.248 | 0.177 | 0.141 | 0.0773 J | 0.292 | 0.263 | 0.179 | 0.237 | 0.259 | 0.38 |
| pH_Field | SU | 7.93 | 8.86 | 8.35 | 7.38 | 7.1 | 7.83 | 7.44 | 8 | 7.88 | 7.35 | 7.14 |
| Sulfate | mg/L | 5.54 | 5.88 | 4.28 | 331 | 286 | 268 | 593 | 26.2 | 111 | 53.9 | 387 |
| TDS | mg/L | 259 | 288 | 309 | 752 | 740 | 1100 | 2290 | 406 | 767 | 438 | 1480 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 |
| Arsenic | mg/L | 0.00121 | 0.000382 | 0.000259 | 8.27e-005 J | <8.1e-005 | 0.000968 | 0.00148 | 0.00112 | 0.0015 | 0.0016 | 0.00447 |
| Barium | mg/L | 0.126 | 0.072 | 0.0601 | 0.0771 | 0.0695 | 0.0414 | 0.0599 | 0.245 | 0.342 | 0.092 | 0.114 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | 0.000584 J | 0.000443 J | <0.000203 | <0.000203 | 0.000233 J | 0.000288 J | 0.000354 J | 0.000346 J | 0.000221 J | 0.000248 J | 0.000256 J |
| Cobalt | mg/L | 0.000256 | <6.8e-005 | <6.8e-005 | 0.000203 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | 9.1e-005 J | 0.000111 J |
| Combined Radium | pCi/L | 0.473 U | 0.836 U | 0.53 U | 0.258 U | 0.603 U | 0.645 U | 1.63 | 0.486 U | 0.696 U | 0.495 U | 0.857 U |
| Lead | mg/L | 0.000634 | 0.000221 | <6.8e-005 | 0.000208 | <6.8e-005 | <6.8e-005 | <6.8e-005 | 0.00028 | 0.000166 J | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0498 | 0.0309 | 0.0311 | 0.041 | 0.0428 | 0.042 | 0.0911 | 0.0316 | 0.0429 | 0.0383 | 0.0378 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.0459 | 0.00143 | 0.00102 | 0.000118 J | 0.000114 J | 0.000802 | 0.00806 | 0.00536 | 0.0142 | 0.00427 | 0.0243 |

Notes:

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5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|-------------|------------|--------------|------------|-------------|------------|-------------|------------|------------|
| | | GS-AP-MW-37HR | | GS-AP-MW-3V | | GS-AP-MW-45V | | GS-AP-MW-46 | | GS-AP-MW-47 | | GS-AP-MW- |
| | | 02/28/2022 | 07/26/2022 | 02/23/2022 | 07/20/2022 | 02/23/2022 | 08/08/2022 | 02/23/2022 | 08/02/2022 | 02/28/2022 | 07/26/2022 | 03/01/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | <0.03 | <0.03 | 0.109 | 0.123 | 0.0384 J | 0.0385 J | 0.768 | 0.83 | <0.03 | <0.03 | 0.036 J |
| Calcium | mg/L | 2.52 | 3.48 | 9.73 | 22.1 | 5.61 | 6.3 | 1.2 | 1.21 | 28.7 | 28.9 | 96.7 |
| Chloride | mg/L | 28.1 | 32.1 | 155 | 399 | 54.2 | 58.8 | 43.9 | 36.1 | 11.7 | 15.4 | 46.4 |
| Fluoride | mg/L | 0.194 | 0.143 | 0.241 | 0.231 | 0.204 | 0.154 | 0.226 | 0.249 | 0.121 | 0.0601 J | 0.147 |
| pH_Field | SU | 7.88 | 7.88 | 7.45 | 7.41 | 7.86 | 7.74 | 8.69 | 8.67 | 7.15 | 7.32 | 6.77 |
| Sulfate | mg/L | 22.6 | 32.2 | 370 | 454 | 273 | 273 | 317 | 208 | 14.4 | 16.7 | 348 |
| TDS | mg/L | 287 | 331 | 1050 | 1520 | 674 | 696 | 614 | 594 | 180 | 190 | 762 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 |
| Arsenic | mg/L | 0.000861 | 0.00117 | 0.00249 | 0.00141 | 0.000984 | 0.000491 | 0.0824 | 0.121 | 0.000397 | 0.000345 | 0.000484 |
| Barium | mg/L | 0.0131 | 0.0171 | 0.0486 | 0.0815 | 0.0221 | 0.0221 | 0.0718 | 0.0696 | 0.762 | 0.728 | 0.0695 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.000203 | 0.000407 J | 0.000509 J | 0.000397 J | <0.000203 | 0.000882 J | <0.000203 | 0.000222 J | <0.000203 | 0.000267 J | 0.000353 J |
| Cobalt | mg/L | <6.8e-005 | <6.8e-005 | 0.000207 | 0.000249 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | 0.00012 J | 0.000102 J | <6.8e-005 |
| Combined Radium | pCi/L | 0.739 U | 0.5 U | 0.57 U | 0.762 U | 0.442 U | 0.469 U | 0.0974 U | 0.314 U | 0.174 U | 0.441 U | 0.799 U |
| Lead | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | 7.41e-005 J | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0312 | 0.0357 | 0.0489 | 0.071 | 0.0374 | 0.0431 | 0.0629 | 0.0749 | 0.0363 | 0.0429 | 0.0648 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00315 | 0.00536 | 0.0191 | 0.0489 | 0.00452 | 0.00376 | 0.00512 | 0.00842 | 0.00159 | 0.00213 | 0.00185 |

Notes:

1. mg/L - Milligrams per Liter
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4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|-------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW- | GS-AP-MW-9R | | GS-AP-PZ-18R | | GS-AP-MW-2 | | | | | |
| | | 08/02/2022 | 03/01/2022 | 07/19/2022 | 02/21/2022 | 07/27/2022 | 08/02/2016 | 09/19/2016 | 10/24/2016 | 12/13/2016 | 02/08/2017 | 03/30/2017 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0384 J | 0.106 | 0.104 | 0.0925 J | 0.0881 J | 0.178 | 0.0937 J | 0.0986 J | 0.0965 J | 0.0896 J | 0.0871 J |
| Calcium | mg/L | 130 | 49.3 | 47.3 | 69 | 87.1 | 2.25 | 0.724 | 0.635 | 0.714 | 0.722 | 0.686 |
| Chloride | mg/L | 54.5 | 65.9 | 24.5 | 5.32 | 4.88 | 6.15 | 5.98 | 5.93 | 5.7 | 8.44 | 11 |
| Fluoride | mg/L | 0.144 | 0.218 | 0.245 | 0.207 | 0.157 | 1.76 | 1.55 | 1.29 | 1.19 | 1.6 | 1.5 |
| pH_Field | SU | 6.72 | 6.4 | 6.31 | 7.37 | 7.18 | 9.18 | 9.18 | 9.14 | 9.2 | 9.17 | 9.08 |
| Sulfate | mg/L | 294 | 104 | 86.6 | 55.5 | 49.1 | 2.87 | 1.22 | <0.3 | <0.3 | 19.4 | 31 |
| TDS | mg/L | 788 | 398 | 297 | 303 | 307 | 390 | 398 | 395 | 381 | 376 | 391 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Arsenic | mg/L | 0.000209 | 0.0055 | 0.00607 | 0.00156 | 0.0014 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Barium | mg/L | 0.0605 | 0.0425 | 0.0339 | 0.0659 | 0.0642 | 0.0895 | 0.0744 | 0.0787 | 0.0758 | 0.0823 | 0.0768 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Chromium | mg/L | 0.000228 J | <0.000203 | 0.000229 J | 0.000262 J | <0.000203 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Cobalt | mg/L | <6.8e-005 | 9.26e-005 J | <6.8e-005 | 0.000136 J | 9.9e-005 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.479 U | 0.663 U | 0.803 U | 0.775 U | 0.14 U | 0.274 U | 0.0478 U | 1.41 | 0.733 | 0.0206 U | 0.122 U |
| Lead | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | 0.0827 | 0.0361 | 0.0356 | 0.0157 J | 0.0169 J | 0.0495 J | 0.049 J | 0.0488 J | 0.0483 J | 0.0644 | 0.0597 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 |
| Molybdenum | mg/L | 0.00237 | 0.00301 | 0.00308 | 0.00091 | 0.000765 | <0.002 | <0.002 | <0.002 | <0.002 | 0.00359 J | 0.00485 J |

Notes:

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2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-2 | | | | | | | | | | |
| | | 04/26/2017 | 06/06/2017 | 08/21/2017 | 02/21/2018 | 05/16/2018 | 10/16/2018 | 04/17/2019 | 09/25/2019 | 03/25/2020 | 05/13/2020 | 09/22/2020 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0818 J | 0.0805 J | 0.102 | -- | 0.147 | 0.169 | 0.165 | 0.153 | 0.163 | 0.154 | 0.133 |
| Calcium | mg/L | 0.646 | 0.569 | 0.634 | -- | 0.588 | 0.714 | 0.511 | 0.581 | 0.518 | 0.493 J | 0.503 |
| Chloride | mg/L | 10 | 9.6 | 12 | -- | 12 | 20 | 9.5 | 12 | 9.7 | 8.25 | 6.33 |
| Fluoride | mg/L | 1.4 | 1.3 | 1.4 | 1.1 | 1.1 | 1 | 0.868 | 0.86 | 0.855 | 0.777 | 0.921 |
| pH_Field | SU | 9.22 | 9.22 | 9.12 | 9.17 | 9.28 | 9.35 | 9.26 | 9.31 | 9.29 | 9.43 | 9.41 |
| Sulfate | mg/L | 29 | 37 | 55 | -- | 34 | 90 | 48.6 | 47.7 | 38.5 | 33.6 | 21.5 |
| TDS | mg/L | 384 | 404 | 416 | -- | 365 | 430 | 341 | 358 | 337 | 328 | 318 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 |
| Arsenic | mg/L | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Barium | mg/L | 0.077 | 0.0711 | -- | 0.0864 | 0.0658 | 0.0846 | 0.0576 | 0.065 | 0.0602 | 0.0528 | 0.0563 |
| Beryllium | mg/L | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | 0.00138 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Chromium | mg/L | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Cobalt | mg/L | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.397 U | 0.0873 U | -- | 0.562 | 1.44 | 0.736 | 0.0905 U | 0.537 U | 4 | 0.289 U | 0.712 |
| Lead | mg/L | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | 0.0459 J | 0.0491 J | -- | 0.0534 | 0.0451 J | 0.0511 | 0.0421 | 0.0457 | 0.0434 | 0.0409 | 0.0395 |
| Mercury | mg/L | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00444 J | 0.00489 J | -- | 0.0112 | 0.00547 J | 0.00919 J | 0.00293 J | 0.00803 J | 0.00343 J | 0.00224 J | 0.00308 J |

Notes:

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|
| | | GS-AP-MW-2 | | | | GS-AP-MW-3 | | | | GS-AP-MW-6S | | |
| | | 02/01/2021 | 08/04/2021 | 02/22/2022 | 07/19/2022 | 02/17/2021 | 08/03/2021 | 02/16/2022 | 07/20/2022 | 08/03/2016 | 09/20/2016 | 10/26/2016 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.13 | 0.117 | 0.112 | 0.106 | 0.426 | 0.386 | 0.364 | 0.335 | 1.16 | 1.16 | 1.24 |
| Calcium | mg/L | 0.517 | 0.564 | 0.413 | 0.359 J | 39.3 | 30.8 | 18.6 | 22.4 | 42.5 | 51.1 | 65.6 |
| Chloride | mg/L | 8.42 | 7.25 | 6.05 | 4.42 | 17.4 | 13.6 | 14 | 15.3 | 21.9 | 20.9 | 20.7 |
| Fluoride | mg/L | 0.865 | 0.932 | 0.819 | 0.752 | 0.1 | 0.102 | <0.06 | <0.06 | 0.099 J | 0.074 J | 0.032 J |
| pH_Field | SU | 9.31 | 9.08 | 9.42 | 9.6 | 7.71 | 7.82 | 7.78 | 8.1 | 6.81 | 6.72 | 6.68 |
| Sulfate | mg/L | 21.3 | 16.8 | 17.1 | 19.4 | 158 | 99.4 | 91.2 | 78.6 | 203 | 209 | 224 |
| TDS | mg/L | 333 | 316 | 295 | 262 | 387 | 333 | 307 | 294 | 394 | 444 | 456 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.0006 | <0.0006 | <0.0006 |
| Arsenic | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <8.1e-005 | 0.000168 J | 0.000144 J | 0.000202 J | 0.000137 J | 0.0103 | 0.0103 | 0.0115 |
| Barium | mg/L | 0.0578 | 0.0702 | 0.0511 | 0.0474 | 0.59 | 0.589 | 0.498 | 0.492 | 0.27 | 0.228 | 0.23 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 |
| Chromium | mg/L | 0.000505 J | 0.000849 J | <0.000203 | <0.000203 | 0.000326 J | 0.000268 J | 0.000267 J | 0.000217 J | <0.002 | <0.002 | <0.002 |
| Cobalt | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.518 U | 0.502 U | 0.21 U | 0.306 U | 0.331 U | 0.978 U | 0.601 U | 0.473 U | 1.38 | 1.3 | 0.721 U |
| Lead | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | 0.0445 | 0.0443 | 0.0336 | 0.0369 | 0.0995 | 0.088 | 0.0734 | 0.0814 | <0.01 | <0.01 | 0.0199 J |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00025 | <0.00025 | <0.00025 |
| Molybdenum | mg/L | 0.00427 | 0.00168 | 0.00327 | 0.00146 | 0.0113 | 0.00977 | 0.00832 | 0.0083 | <0.002 | 0.00202 J | 0.00599 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-6S | | | | | | | | | | |
| | | 12/12/2016 | 02/06/2017 | 03/27/2017 | 04/24/2017 | 06/06/2017 | 08/21/2017 | 02/19/2018 | 05/14/2018 | 10/15/2018 | 04/16/2019 | 09/23/2019 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 1.24 | 1.1 | 1.04 | 1 | 1.02 | 1.05 | -- | 0.99 | 1.05 | 0.961 | 1.08 |
| Calcium | mg/L | 66.5 | 73.1 | 71.9 | 73.5 | 71.8 | 63.5 | -- | 67.5 | 68.9 | 57.1 | 60 |
| Chloride | mg/L | 21.1 | 23.3 | 25 | 24 | 22 | 21 | -- | 20 | 20 | 23.1 | 23.4 |
| Fluoride | mg/L | 0.034 J | 0.06 J | 0.07 J | 0.08 J | 0.09 J | 0.1 | 0.1 | 0.13 | 0.14 | 0.147 | 0.142 |
| pH_Field | SU | 6.76 | 6.75 | 6.67 | 6.81 | 6.8 | 6.78 | 6.85 | 6.82 | 6.78 | 6.82 | 6.51 |
| Sulfate | mg/L | 249 | 309 | 290 | 300 | 310 | 260 | -- | 210 | 170 | 195 | 176 |
| TDS | mg/L | 491 | 580 | 554 | 566 | 580 | 524 | -- | 458 | 404 | 382 | 381 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | 0.000727 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0008 | <0.0008 | <0.0008 |
| Arsenic | mg/L | 0.0106 | 0.0106 | 0.00989 | 0.00907 | 0.0105 | -- | 0.0108 | 0.00864 | 0.00832 | 0.0164 | 0.0105 |
| Barium | mg/L | 0.276 | 0.25 | 0.196 | 0.159 | 0.137 | -- | 0.145 | 0.12 | 0.118 | 0.124 | 0.124 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | 0.000794 J | <0.0006 | <0.0006 |
| Cadmium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Cobalt | mg/L | 0.00212 J | 0.00247 J | 0.00224 J | <0.002 | 0.00222 J | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 1.36 | 0.702 | 0.325 U | 0.436 U | 0.592 | -- | 0.776 | -0.169 U | 0.792 | 1.11 | 1.06 |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- | <0.01 | 0.0238 J | 0.03 | <0.01 | 0.0105 J |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00214 J | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | 0.00526 J | 0.00644 J | 0.00246 J | 0.00412 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|-------------|------------|------------|-------------|------------|------------|------------|------------|
| | | GS-AP-MW-6S | | | | | | GS-AP-MW-6D | | | | |
| | | 03/17/2020 | 09/16/2020 | 02/03/2021 | 07/27/2021 | 02/14/2022 | 07/26/2022 | 08/03/2016 | 09/20/2016 | 10/24/2016 | 12/12/2016 | 02/06/2017 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.867 | 0.8 | 0.817 | 0.873 | 0.992 | 1.1 | 1.04 | 1.01 | 1.08 | 1.09 | 1.06 |
| Calcium | mg/L | 59.3 | 55.9 | 50.7 | 52.6 | 54.4 | 52.2 | 48.1 | 51.2 | 49.5 | 54.3 | 51.2 |
| Chloride | mg/L | 17.4 | 14.6 | 14.9 | 17 | 20.5 | 22.9 | 5.2 | 5.31 | 5.4 | 5.46 | 5.28 |
| Fluoride | mg/L | 0.231 | 0.308 | 0.195 | 0.2 | 0.172 | 0.172 | 0.127 J | 0.087 J | 0.019 J | 0.043 J | 0.11 |
| pH_Field | SU | 6.92 | 6.93 | 7.05 | 6.67 | 6.99 | 6.97 | 7.27 | 7.27 | 7.25 | 7.26 | 7.24 |
| Sulfate | mg/L | 148 | 115 | 116 | 114 | 120 | 109 | 52 | 56 | 57.5 | 50 | 54.9 |
| TDS | mg/L | 328 | 269 | 274 | 273 | 299 | 311 | 302 | 298 | 306 | 291 | 285 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | 0.000948 J | 0.00055 J | 0.00123 | 0.000694 J | 0.000698 J | <0.0006 | <0.0006 | <0.0006 | 0.00104 J | <0.0006 |
| Arsenic | mg/L | 0.00778 | 0.00611 | 0.0071 | 0.00634 | 0.00641 | 0.00935 | 0.0547 | 0.0625 | 0.0695 | 0.0611 | 0.0618 |
| Barium | mg/L | 0.0725 | 0.0682 | 0.0779 | 0.0876 | 0.097 | 0.0959 | 0.852 | 0.685 | 0.711 | 0.789 | 0.779 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Chromium | mg/L | <0.002 | <0.002 | 0.000268 J | 0.000239 J | <0.000203 | 0.000244 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Cobalt | mg/L | <0.002 | <0.002 | 0.000663 | 0.000643 | 0.000708 | 0.000768 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.351 U | 1.05 | 0.489 U | 0.87 U | 0.14 U | 1.17 | 0.42 U | 1.13 | 0.327 U | 1.26 | 0.532 |
| Lead | mg/L | <0.001 | <0.001 | <6.8e-005 | 7.75e-005 J | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | 0.0695 | 0.066 | 0.0455 | 0.0576 | 0.0662 | 0.0665 | 0.204 | 0.223 | 0.243 | 0.22 | 0.247 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 |
| Molybdenum | mg/L | 0.0272 | 0.0427 | 0.0218 | 0.0452 | 0.0406 | 0.0402 | 0.00372 J | 0.00481 J | 0.00496 J | 0.00467 J | 0.00468 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-6D | | | | | | | | | | |
| | | 03/27/2017 | 04/24/2017 | 06/06/2017 | 08/21/2017 | 02/19/2018 | 05/14/2018 | 10/15/2018 | 04/16/2019 | 09/23/2019 | 03/17/2020 | 09/17/2020 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 1.07 | 1.08 | 1.11 | 0.906 | -- | 1.04 | 1.06 | 1.09 | 1.15 | 1.17 | 1.22 |
| Calcium | mg/L | 51.4 | 54.7 | 53.9 | 47.3 | -- | 54.8 | 53.9 | 53.5 | 56.1 | 57.2 | 61.5 |
| Chloride | mg/L | 6.4 | 6.5 | 4.7 | 6.1 | -- | 6 | 7 | 8.93 | 8.72 | 10.1 | 10.5 |
| Fluoride | mg/L | 0.12 | 0.11 | 0.12 | 0.15 | 0.13 | 0.13 | 0.16 | 0.193 | 0.132 | 0.132 | 0.133 |
| pH_Field | SU | 7.29 | 7.46 | 7.29 | 7.21 | 7.36 | 7.36 | 7.33 | 7.26 | 7.23 | 7.39 | 7.41 |
| Sulfate | mg/L | 50 | 56 | 63 | 35 | -- | 46 | 37 | 46.2 | 47.9 | 59.5 | 65.1 |
| TDS | mg/L | 305 | 301 | 311 | 289 | -- | 303 | 309 | 277 | 296 | 303 | 314 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 |
| Arsenic | mg/L | 0.0711 | 0.0787 | 0.0778 | -- | 0.0616 | 0.074 | 0.0758 | 0.0869 | 0.0876 | 0.105 | 0.0931 |
| Barium | mg/L | 0.77 | 0.716 | 0.611 | -- | 0.872 | 0.914 | 0.896 | 0.865 | 0.903 | 0.638 | 0.378 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Cobalt | mg/L | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.334 U | 0.492 | 0.156 U | -- | 0.283 U | 0.083 U | 0.656 | 0.528 | 0.677 | 0.629 | 0.32 U |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | 0.263 | 0.237 | 0.259 | -- | 0.213 | 0.239 | 0.236 | 0.266 | 0.264 | 0.292 | 0.299 |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00548 J | 0.00606 J | 0.00545 J | -- | 0.00537 J | 0.00564 J | 0.00538 J | 0.00762 J | 0.00758 J | 0.00959 J | 0.00924 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-6D | | | | GS-AP-MW-7 | | | | | | |
| | | 02/03/2021 | 07/27/2021 | 02/14/2022 | 07/25/2022 | 08/02/2016 | 09/21/2016 | 10/24/2016 | 12/12/2016 | 02/06/2017 | 03/28/2017 | 04/24/2017 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 1.24 | 1.29 | 1.29 | 1.39 | 1.57 | 1.4 | 1.42 | 1.38 | 1.44 | 1.44 | 1.41 |
| Calcium | mg/L | 56.9 | 55.5 | 55.7 | 65.1 | 19.4 | 15.4 | 14.8 | 15 | 14.9 | 14.3 | 14.5 |
| Chloride | mg/L | 12.2 | 11.1 | 11.7 | 9.59 | 3.7 | 3.74 | 3.75 | 4.06 | 3.92 | 4.3 | 4.6 |
| Fluoride | mg/L | 0.135 | 0.127 | 0.108 | 0.1 J | 0.098 J | 0.061 J | <0.01 | 0.01 J | 0.07 J | 0.07 J | 0.08 J |
| pH_Field | SU | 7.55 | 6.79 | 7.43 | 6.95 | 7.72 | 7.6 | 7.68 | 7.72 | 7.64 | 7.58 | 7.68 |
| Sulfate | mg/L | 58.9 | 64.4 | 58.3 | 57.7 | 154 | 146 | 131 | 141 | 135 | 140 | 140 |
| TDS | mg/L | 301 | 262 | 297 | 282 | 358 | 370 | 370 | 353 | 338 | 352 | 362 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.0006 | <0.0006 | <0.0006 | 0.000891 J | <0.0006 | <0.0006 | <0.0006 |
| Arsenic | mg/L | 0.104 | 0.107 | 0.12 | 0.125 | 0.188 | 0.179 | 0.151 | 0.181 | 0.194 | 0.205 | 0.202 |
| Barium | mg/L | 0.443 | 0.488 | 0.599 | 0.544 | 0.0927 | 0.0979 | 0.0751 | 0.0737 | 0.0773 | 0.0728 | 0.0724 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Chromium | mg/L | 0.000264 J | 0.000241 J | 0.000243 J | <0.000203 | <0.002 | <0.002 | 0.00216 J | <0.002 | <0.002 | <0.002 | <0.002 |
| Cobalt | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.647 U | 0.919 U | 1.24 | 0.513 U | 0.87 | 0.107 U | 0.337 U | 0.803 | -0.0165 U | 0.00697 U | 0.672 |
| Lead | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | 0.00279 J | 0.0024 J | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | 0.312 | 0.326 | 0.286 | 0.334 | 0.144 | 0.136 | 0.135 | 0.146 | 0.182 | 0.175 | 0.143 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 |
| Molybdenum | mg/L | 0.0095 | 0.0101 | 0.00256 | 0.011 | 0.146 | 0.146 | 0.136 | 0.14 | 0.15 | 0.159 | 0.16 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-7 | | | | | | | | | | |
| | | 06/07/2017 | 08/21/2017 | 02/19/2018 | 05/15/2018 | 10/15/2018 | 04/23/2019 | 09/24/2019 | 03/17/2020 | 09/16/2020 | 02/02/2021 | 08/09/2021 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 1.45 | 1.39 | -- | 1.5 | 1.53 | 1.5 | 1.6 | 1.58 | 1.54 | 1.6 | 1.62 |
| Calcium | mg/L | 14.1 | 12.6 | -- | 12.9 | 12.5 | 13.8 | 13.4 | 13.5 | 12.2 | 12.2 | 11.6 |
| Chloride | mg/L | 4.3 | 4.7 | -- | 4.3 | 5.1 | 5.16 | 5.76 | 6.65 | 6.17 | 6.76 | 7.03 |
| Fluoride | mg/L | 0.09 J | 0.09 J | 0.09 J | 0.09 J | 0.11 | 0.111 | 0.106 | 0.107 | 0.126 | 0.124 | 0.11 |
| pH_Field | SU | 7.56 | 7.61 | 7.65 | 7.69 | 7.62 | 7.83 | 7.38 | 7.72 | 7.74 | 7.77 | 7.49 |
| Sulfate | mg/L | 150 | 140 | -- | 120 | 130 | 156 | 145 | 149 | 131 | 130 | 133 |
| TDS | mg/L | 348 | 362 | -- | 338 | 333 | 354 | 344 | 334 | 351 | 349 | 340 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | -- | <0.0006 | <0.0006 | <0.0008 | 0.00105 J | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 |
| Arsenic | mg/L | 0.193 | -- | 0.182 | 0.211 | 0.217 | 0.207 | 0.233 | 0.285 | 0.282 | 0.275 | 0.282 |
| Barium | mg/L | 0.0581 | -- | 0.0464 | 0.0501 | 0.049 | 0.113 | 0.0834 | 0.174 | 0.124 | 0.115 | 0.0891 |
| Beryllium | mg/L | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | -- | <0.002 | <0.002 | <0.002 | 0.00435 J | <0.002 | 0.0076 J | 0.00482 J | 0.00435 | 0.00234 |
| Cobalt | mg/L | <0.002 | -- | <0.002 | <0.002 | <0.002 | 0.00231 J | <0.002 | 0.00476 J | 0.00301 J | 0.00248 | 0.0011 |
| Combined Radium | pCi/L | 0.096 U | -- | 0.207 U | 0.0311 U | 0.309 U | 0.894 | 0.618 U | 1.2 | 1.1 | 0.373 U | 1.23 U |
| Lead | mg/L | <0.001 | -- | <0.001 | <0.001 | <0.001 | 0.00207 J | <0.001 | 0.00386 J | 0.00295 J | 0.00243 | 0.00119 |
| Lithium | mg/L | 0.152 | -- | 0.143 | 0.151 | 0.155 | 0.144 | 0.156 | 0.161 | 0.16 | 0.183 | 0.205 |
| Mercury | mg/L | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.15 | -- | 0.172 | 0.177 | 0.168 | 0.185 | 0.178 | 0.193 | 0.215 | 0.202 | 0.207 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-7 | | GS-AP-MW-8 | | | | | | | | |
| | | 02/08/2022 | 07/25/2022 | 08/03/2016 | 09/21/2016 | 10/25/2016 | 12/13/2016 | 02/06/2017 | 03/28/2017 | 04/24/2017 | 06/07/2017 | 08/21/2017 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 1.69 | 1.68 | 0.0239 J | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Calcium | mg/L | 11.1 | 10.6 | 6.85 | 11.7 | 10.8 | 5.86 | 9.76 | 5.28 | 6.89 | 3.58 | 3.38 |
| Chloride | mg/L | 7.5 | 7.75 | 3.21 | 2.95 | 3.03 | 3.21 | 3 | 3.3 | 3.8 | 3.5 | 3.6 |
| Fluoride | mg/L | 0.0945 J | 0.0734 J | 0.125 J | 0.098 J | 0.025 J | 0.045 J | 0.1 | 0.08 J | 0.09 J | 0.08 J | 0.08 J |
| pH_Field | SU | 7.71 | 7.64 | 5.84 | 5.99 | 5.94 | 5.84 | 5.9 | 5.67 | 5.79 | 5.71 | 5.7 |
| Sulfate | mg/L | 138 | 140 | 4.2 | 4.27 | 2.78 | 3.18 | 3.74 | 3.4 J | 2.7 J | 2.7 J | 3.9 J |
| TDS | mg/L | 332 | 299 | 113 | 128 | 121 | 101 | 108 | 91 | 89.3 | 84 | 91.3 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | <0.0006 | <0.0006 | <0.0006 | 0.00067 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- |
| Arsenic | mg/L | 0.281 | 0.27 | 0.00214 J | 0.00112 J | <0.001 | <0.001 | 0.00111 J | 0.00109 J | <0.001 | <0.001 | -- |
| Barium | mg/L | 0.0747 | 0.0577 | 0.0274 | 0.0811 | 0.0576 | 0.0241 | 0.0747 | 0.0183 | 0.04 | 0.00769 J | -- |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- |
| Chromium | mg/L | <0.000203 | 0.00024 J | <0.002 | 0.00266 J | <0.002 | <0.002 | <0.002 | 0.00322 J | <0.002 | 0.00227 J | -- |
| Cobalt | mg/L | <6.8e-005 | <6.8e-005 | 0.0026 J | 0.00362 J | 0.00305 J | <0.002 | 0.00308 J | <0.002 | <0.002 | <0.002 | -- |
| Combined Radium | pCi/L | 0.355 U | 0.699 U | 0.299 U | 0.835 | 0.0629 U | 0.547 | 0.251 U | -0.109 U | 0.293 U | 0.529 | -- |
| Lead | mg/L | 0.000804 | <6.8e-005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- |
| Lithium | mg/L | 0.197 | 0.218 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | -- |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- |
| Molybdenum | mg/L | 0.221 | 0.214 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|-------------|
| | | GS-AP-MW-8 | | | | | | | | | | |
| | | 02/19/2018 | 05/15/2018 | 10/16/2018 | 04/16/2019 | 09/24/2019 | 03/18/2020 | 09/21/2020 | 02/02/2021 | 08/10/2021 | 02/16/2022 | 08/02/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | -- | <0.02 | <0.02 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Calcium | mg/L | -- | 4.25 | 3.21 | 4.43 | 7.24 | 4.51 | 5.19 | 4.35 | 4.47 | 4.42 | 4.79 |
| Chloride | mg/L | -- | 3.3 | 3.3 | 3.69 | 3.21 | 4.35 | 3.22 | 3.85 | 4.04 | 4.42 | 4.35 |
| Fluoride | mg/L | 0.08 J | 0.1 | 0.09 J | 0.143 | 0.128 | 0.108 | 0.125 | 0.114 | 0.0924 J | 0.0616 J | 0.0815 J |
| pH_Field | SU | 5.78 | 5.84 | 5.75 | 5.76 | 5.27 | 5.81 | 5.75 | 5.69 | 5.02 | 5.8 | 5.78 |
| Sulfate | mg/L | -- | 2.5 J | 2.4 J | 4.53 | 6.61 | 4.86 | 4.69 | 4.83 | 3.77 | 4.68 | 4.18 |
| TDS | mg/L | -- | 94.7 | 76.7 | 92 | 109 | 90.7 | 94 | 98.7 | 101 | 90.7 | 97.3 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 |
| Arsenic | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.000228 | 0.00039 | 0.000278 | <8.1e-005 |
| Barium | mg/L | 0.00762 J | 0.00701 J | 0.0094 J | 0.00459 J | 0.0434 | 0.00507 J | 0.026 | 0.0068 | 0.00805 | 0.00763 | 0.0106 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000389 J | 0.000579 J | 0.000396 J | 0.000306 J |
| Cobalt | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | 0.00234 J | <0.002 | <0.002 | 0.000384 | 0.000586 | 0.000639 | 0.00133 |
| Combined Radium | pCi/L | 0.497 | -0.601 U | 0.2 U | 0.733 | 0.753 | 0.465 U | 1.25 | 0.223 U | 0.77 U | 0.561 U | 0.154 U |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 8.09e-005 J | 0.000149 J | <6.8e-005 | 8.33e-005 J |
| Lithium | mg/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.00796 J | 0.00832 J | 0.00763 J | 0.01 J |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | 0.000117 J | <0.000102 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-12 | | | | | | | | | | |
| | | 08/03/2016 | 09/20/2016 | 10/25/2016 | 12/13/2016 | 02/08/2017 | 03/29/2017 | 04/26/2017 | 06/07/2017 | 08/22/2017 | 02/20/2018 | 05/15/2018 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.34 | 0.299 | 0.323 | 0.294 | 0.264 | 0.246 | 0.234 | 0.194 | 0.156 | -- | 0.0781 J |
| Calcium | mg/L | 36.1 | 27 | 26.1 | 29.4 | 31.9 | 31.8 | 34.6 | 33.4 | 31.5 | -- | 34.8 |
| Chloride | mg/L | 14.5 | 12.9 | 12.2 | 10.4 | 8.77 | 10 | 9.8 | 8 | 6.5 | -- | 4.4 |
| Fluoride | mg/L | 0.656 | 0.691 | 0.588 | 0.545 | 0.79 | 0.51 | 0.49 | 0.43 | 0.41 | 0.27 | 0.23 |
| pH_Field | SU | 7.36 | 7.28 | 7.23 | 7.27 | 7.25 | 7.34 | 7.19 | 7.24 | 7.31 | 7.69 | 7.69 |
| Sulfate | mg/L | 19.2 | 1.42 | <0.3 | 3.21 | 3.3 | 3.8 J | 1.4 J | 1.7 J | 4.2 J | -- | 14 |
| TDS | mg/L | 546 | 542 | 518 | 424 | 379 | 334 | 332 | 308 | 286 | -- | 235 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0006 | 0.000681 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 |
| Arsenic | mg/L | 0.11 | 0.0746 | 0.0728 | 0.0538 | 0.0427 | 0.0404 | 0.0372 | 0.0307 | -- | 0.0282 | 0.0253 |
| Barium | mg/L | 0.144 | 0.102 | 0.109 | 0.115 | 0.122 | 0.116 | 0.127 | 0.115 | -- | 0.132 | 0.163 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 |
| Cadmium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 |
| Cobalt | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 |
| Combined Radium | pCi/L | 1.08 | 0.848 | 0.92 | 0.974 | 0.535 | 0.194 U | 0.384 U | 0.729 | -- | 0.242 U | 0.433 U |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 |
| Lithium | mg/L | 0.0265 J | 0.0225 J | 0.0217 J | 0.026 J | 0.0315 J | 0.0308 J | 0.0248 J | 0.0234 J | -- | 0.058 | 0.0489 J |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 |
| Molybdenum | mg/L | 0.0269 | 0.00762 J | 0.00456 J | 0.00411 J | 0.00235 J | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|
| | | GS-AP-MW-12 | | | | | | | | | GS-AP-MW-15 | |
| | | 10/16/2018 | 04/16/2019 | 09/25/2019 | 03/18/2020 | 09/23/2020 | 02/01/2021 | 08/09/2021 | 02/28/2022 | 07/19/2022 | 08/01/2016 | 09/20/2016 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.057 J | 0.0385 J | 0.122 | 0.0449 J | 0.0446 J | 0.0672 J | <0.03 | 0.0305 J | 0.0322 J | 0.0955 J | 0.0706 J |
| Calcium | mg/L | 35.6 | 38.3 | 48.1 | 44 | 45.9 | 45.8 | 40.2 | 43.1 | 37.6 | 10.5 | 14.7 |
| Chloride | mg/L | 3.1 | 3.22 | 6.68 | 4.22 | 3.15 | 3.32 | 2.75 | 3.34 | 2.99 | 15.6 | 8.6 |
| Fluoride | mg/L | 0.23 | 0.188 | 0.168 | 0.122 | 0.12 | 0.126 | 0.139 | 0.12 | 0.0983 J | 1.16 | 0.7 |
| pH_Field | SU | 7.51 | 7.41 | 7.38 | 7.56 | 8.3 | 7.55 | 7.98 | 8.12 | 8.79 | 11.74 | 10.33 |
| Sulfate | mg/L | 13 | 13.3 | 25.5 | 20.8 | 19.1 | 18.7 | 17.3 | 17.9 | 18.5 | 102 | 53.3 |
| TDS | mg/L | 211 | 193 | 253 | 236 | 216 | 224 | 219 | 195 | 199 | 640 | 434 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | <0.0008 | <0.0008 | 0.0022 J | 0.00202 J | 0.000518 J | 0.00179 | 0.00229 | 0.00679 | 0.00115 J | 0.000876 J |
| Arsenic | mg/L | 0.0203 | 0.014 | 0.0135 | 0.00693 | 0.00616 | 0.00747 | 0.00308 | 0.0066 | 0.00384 | 0.015 | 0.0111 |
| Barium | mg/L | 0.159 | 0.161 | 0.202 | 0.195 | 0.193 | 0.201 | 0.194 | 0.173 | 0.188 | 0.117 | 0.193 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000203 | 0.000308 J | <0.000203 | 0.000262 J | 0.00209 J | <0.002 |
| Cobalt | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.421 U | 0.184 U | 0.442 U | 0.605 | 0.811 U | 0.946 U | 0.907 U | 0.725 U | 0.934 U | 0.682 | 1.2 |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 |
| Lithium | mg/L | 0.0341 | 0.0261 | 0.028 | 0.0297 | 0.0279 | 0.0249 | 0.0354 | 0.0523 | 0.0631 | 0.393 | 0.144 |
| Mercury | mg/L | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00025 | <0.00025 |
| Molybdenum | mg/L | <0.002 | <0.002 | <0.002 | 0.00444 J | 0.00577 J | 0.00792 | 0.00452 | 0.00903 | 0.0112 | 0.142 | 0.0683 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-15 | | | | | | | | | | |
| | | 10/25/2016 | 12/14/2016 | 02/08/2017 | 03/28/2017 | 04/26/2017 | 06/06/2017 | 08/22/2017 | 02/20/2018 | 05/15/2018 | 10/15/2018 | 04/17/2019 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0849 J | 0.0914 J | 0.0524 J | 0.0532 J | 0.0598 J | 0.0576 J | 0.0702 J | -- | 0.0567 J | 0.07 J | 0.0388 J |
| Calcium | mg/L | 14.7 | 11.9 | 14.4 | 12.9 | 10.4 | 9.41 | 6.89 | -- | 6.86 | 6.28 | 8.53 |
| Chloride | mg/L | 7.96 | 6.94 | 4.96 | 5.2 | 6 | 4.9 | 5.3 | -- | 3.8 | 6.6 | 5.2 |
| Fluoride | mg/L | 0.544 | 0.51 | 0.56 | 0.59 | 0.72 | 0.65 | 0.9 | 0.6 | 0.57 | 0.77 | 0.463 |
| pH_Field | SU | 10.24 | 10.09 | 9.75 | 9.9 | 10.08 | 10.2 | 10.57 | 10.63 | 10.71 | 11.51 | 10.76 |
| Sulfate | mg/L | 49.8 | 40.9 | 25 | 27 | 29 | 23 | 22 | -- | 13 | 14 | 9.02 |
| TDS | mg/L | 394 | 387 | 303 | 305 | 329 | 331 | 364 | -- | 340 | 448 | 354 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | 0.000858 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | 0.000636 J | <0.0006 | <0.0008 | <0.0008 |
| Arsenic | mg/L | 0.0109 | 0.011 | 0.00625 | 0.00558 | 0.007 | 0.00663 | -- | 0.00724 | 0.00749 | 0.0123 | 0.00633 |
| Barium | mg/L | 0.222 | 0.222 | 0.294 | 0.288 | 0.24 | 0.228 | -- | 0.224 | 0.212 | 0.133 | 0.264 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 |
| Cobalt | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.194 U | 0.688 | 0.254 U | -0.0411 U | 0.207 U | 0.0618 U | -- | 0.0898 U | 0.829 | 0.708 | -0.11 U |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | 0.152 | 0.136 | 0.15 | 0.137 | 0.123 | 0.123 | -- | 0.149 | 0.159 | 0.297 | 0.19 |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 |
| Molybdenum | mg/L | 0.063 | 0.0604 | 0.0346 | 0.0331 | 0.038 | 0.0327 | -- | 0.0362 | 0.0344 | 0.0525 | 0.029 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|-------------|-------------|------------|--------------|------------|------------|------------|------------|
| | | GS-AP-MW-15 | | | | | | GS-AP-MW-16S | | | | |
| | | 09/24/2019 | 03/18/2020 | 09/23/2020 | 02/09/2021 | 08/03/2021 | 02/16/2022 | 08/02/2022 | 09/21/2020 | 02/10/2021 | 06/09/2021 | 08/03/2021 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0607 J | 0.0596 J | 0.0537 J | 0.0521 J | 0.0491 J | 0.0323 J | 0.0426 J | 0.0777 J | 0.0762 J | 0.0817 J | 0.0639 J |
| Calcium | mg/L | 3.26 | 5.25 | 3.83 | 4.38 | 3.55 | 6.76 | 3.66 | 10.9 | 15.7 | 4.84 | 23.9 |
| Chloride | mg/L | 5.96 | 8 | 6 | 6.12 | 6.22 | 5.86 | 4.36 | 5.42 | 6.17 | 3.81 | 3.29 |
| Fluoride | mg/L | 0.628 | 0.647 | 0.452 | 0.591 | 0.615 | 0.349 | 0.373 | 0.572 | 0.529 | 0.527 | 0.481 |
| pH_Field | SU | 11.7 | 11.47 | 11.89 | 11.88 | 11.56 | 11.57 | 11.84 | 9.99 | 10.37 | 9.36 | 10.68 |
| Sulfate | mg/L | 12.4 | 15.9 | 13.2 | 10.6 | 9.77 | 7.37 | 9.11 | 2.95 | 3.84 | 7.41 | 9.32 |
| TDS | mg/L | 536 | 515 | 600 | 616 | 632 | 426 | 592 | 426 | 402 | 353 | 343 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | 0.000976 J | 0.000844 J | 0.00075 J | 0.000652 J | <0.000508 | 0.000663 J | <0.0008 | <0.000507 | <0.000507 | <0.000508 |
| Arsenic | mg/L | 0.011 | 0.0217 | 0.0165 | 0.0145 | 0.0139 | 0.00592 | 0.00983 | 0.00174 J | 0.00173 | 0.00256 | 0.00323 |
| Barium | mg/L | 0.0913 | 0.14 | 0.119 | 0.132 | 0.129 | 0.271 | 0.141 | 0.0766 | 0.0976 | 0.0177 | 0.0565 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | 0.00072 J | 0.000802 J | 0.000485 J | 0.000913 J | <0.002 | 0.000246 J | 0.000977 J | 0.000844 J |
| Cobalt | mg/L | <0.002 | <0.002 | <0.002 | <6.8e-005 | 8.79e-005 J | <6.8e-005 | <6.8e-005 | <0.002 | <6.8e-005 | 0.000113 J | 0.000192 J |
| Combined Radium | pCi/L | 0.951 | 0.939 | 0.547 U | 0.442 U | 0.65 U | 0.234 U | 1.12 | 0.47 U | 0.63 U | 0.61 U | 0.362 U |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | 8.74e-005 J | 7.98e-005 J | <6.8e-005 | <6.8e-005 | <0.001 | 0.000105 J | 0.000395 | 0.000389 |
| Lithium | mg/L | 0.469 | 0.378 | 0.414 | 0.493 | 0.536 | 0.263 | 0.529 | 0.074 | 0.103 | 0.0574 | 0.0707 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.0597 | 0.0673 | 0.0744 | 0.0644 | 0.0663 | 0.0306 | 0.0642 | 0.041 | 0.0402 | 0.0217 | 0.0254 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-16S | | | GS-AP-MW-16D | | | | | | | |
| | | 02/15/2022 | 05/11/2022 | 08/02/2022 | 08/01/2016 | 09/19/2016 | 10/25/2016 | 12/13/2016 | 02/08/2017 | 03/29/2017 | 04/26/2017 | 06/06/2017 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | <0.03 | -- | <0.03 | 0.0266 J | 0.0262 J | 0.0273 J | 0.0258 J | 0.0249 J | 0.0247 J | 0.0264 J | 0.0247 J |
| Calcium | mg/L | 85 | -- | 104 | 33 | 31.7 | 32.2 | 33.1 | 32.7 | 32.7 | 33.8 | 32.2 |
| Chloride | mg/L | 4.03 | -- | 3.82 | 2.6 | 2.51 | 2.53 | 2.53 | 2.5 | 2.9 | 3.2 | 2.6 |
| Fluoride | mg/L | 0.151 | -- | 0.114 J | 0.117 J | 0.078 J | 0.018 J | 0.035 J | 0.1 | 0.08 J | 0.11 | 0.11 |
| pH_Field | SU | 11.52 | -- | 12.53 | 7.53 | 7.5 | 7.44 | 7.45 | 7.41 | 7.44 | 7.47 | 7.37 |
| Sulfate | mg/L | 6.47 | -- | 7.43 | 13.4 | 12.9 | 11.6 | 12.7 | 12.2 | 12 | 13 | 12 |
| TDS | mg/L | 664 | -- | 679 | 222 | 220 | 223 | 211 | 206 | 215 | 212 | 227 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | 0.000675 J | -- | <0.000508 | <0.0006 | <0.0006 | <0.0006 | 0.000633 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Arsenic | mg/L | 0.0012 | -- | 0.00127 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Barium | mg/L | 0.255 | -- | 0.339 | 0.316 | 0.276 | 0.3 | 0.314 | 0.324 | 0.316 | 0.323 | 0.29 |
| Beryllium | mg/L | <0.000406 | -- | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | -- | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Chromium | mg/L | 0.000342 J | -- | 0.000452 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Cobalt | mg/L | 0.000196 J | -- | 0.000214 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 1.23 | 0.746 U | 1.43 | 0.363 U | 0.435 U | 0.725 | 0.309 U | 0.00772 U | 0.36 U | 0.0175 U | 0.464 |
| Lead | mg/L | <6.8e-005 | -- | 0.000128 J | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | 0.0911 | -- | 0.116 | 0.036 J | 0.0346 J | 0.0353 J | 0.0361 J | 0.0401 J | 0.0379 J | 0.0318 J | 0.032 J |
| Mercury | mg/L | <0.0003 | -- | <0.0003 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 |
| Molybdenum | mg/L | 0.0337 | -- | 0.0417 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|
| | | GS-AP-MW-16D | | | | | | | | | | |
| | | 08/22/2017 | 02/21/2018 | 05/16/2018 | 10/17/2018 | 04/17/2019 | 09/24/2019 | 03/24/2020 | 09/22/2020 | 02/10/2021 | 08/09/2021 | 02/15/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0246 J | -- | 0.0247 J | 0.0251 J | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Calcium | mg/L | 30.9 | -- | 33.5 | 32 | 32.3 | 34.3 | 34.1 | 32 | 34.6 | 33.2 | 32.2 |
| Chloride | mg/L | 2.9 | -- | 3 | 2.2 | 2.82 | 2.9 | 2.88 | 2.94 | 3.19 | 3.08 | 3.58 |
| Fluoride | mg/L | 0.11 | 0.11 | 0.12 | 0.13 | 0.171 | 0.124 | 0.109 | 0.123 | 0.103 | 0.131 | 0.114 |
| pH_Field | SU | 7.48 | 7.44 | 7.45 | 7.41 | 7.33 | 7.43 | 7.46 | 7.52 | 7.73 | 7.53 | 7.48 |
| Sulfate | mg/L | 12 | -- | 13 | 13 | 14.1 | 14.1 | 14.1 | 13.6 | 15.8 | 14.4 | 14.7 |
| TDS | mg/L | 230 | -- | 216 | 191 | 207 | 208 | 205 | 218 | 224 | 207 | 214 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | -- | <0.0006 | <0.0006 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 |
| Arsenic | mg/L | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.000491 | 9.58e-005 J | 0.000117 J |
| Barium | mg/L | -- | 0.3 | 0.315 | 0.331 | 0.322 | 0.342 | 0.323 | 0.342 | 0.356 | 0.334 | 0.322 |
| Beryllium | mg/L | -- | <0.0006 | <0.0006 | 0.00109 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.00107 | 0.000675 J | 0.000392 J |
| Cobalt | mg/L | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000252 | 8.52e-005 J | <6.8e-005 |
| Combined Radium | pCi/L | -- | 0.44 | 0.209 U | 0.368 U | 0.121 U | -0.033 U | 0.636 | 0.59 U | 0.285 U | 1.07 U | 0.557 U |
| Lead | mg/L | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.000873 | 0.00016 J | <6.8e-005 |
| Lithium | mg/L | -- | 0.0327 J | 0.0337 J | 0.0336 | 0.0349 | 0.0362 | 0.035 | 0.0343 | 0.0376 | 0.0326 | 0.033 |
| Mercury | mg/L | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.00014 J | 0.00069 | 0.000477 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW- | GS-AP-MW-17 | | | | | | | | | |
| | | 08/02/2022 | 08/01/2016 | 09/19/2016 | 10/24/2016 | 12/13/2016 | 02/06/2017 | 03/27/2017 | 04/24/2017 | 06/05/2017 | 08/22/2017 | 02/19/2018 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | <0.03 | 0.0712 J | 0.0716 J | 0.0858 J | 0.0875 J | 0.0729 J | 0.0706 J | 0.0737 J | 0.0767 J | 0.0786 J | -- |
| Calcium | mg/L | 33.8 | 4.52 | 4.3 | 4.02 | 5.5 | 3.79 | 3.13 | 3.41 | 3.32 | 3.52 | -- |
| Chloride | mg/L | 3.65 | 6.47 | 7.78 | 7.29 | 12.2 | 7.68 | 9 | 10 | 10 | 12 | -- |
| Fluoride | mg/L | 0.112 J | 0.214 J | 0.151 J | 0.086 J | 0.14 J | 0.2 | 0.21 | 0.2 | 0.2 | 0.24 | 0.34 |
| pH_Field | SU | 7.49 | 8.39 | 8.42 | 8.42 | 8.43 | 8.38 | 8.43 | 8.39 | 8.42 | 8.4 | 8.33 |
| Sulfate | mg/L | 15.6 | 9.56 | 12.7 | 8.58 | 31 | 14.7 | 14 | 22 | 30 | 42 | -- |
| TDS | mg/L | 210 | 408 | 441 | 424 | 466 | 414 | 444 | 446 | 493 | 500 | -- |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.0006 | 0.000636 J | <0.0006 | 0.00072 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 |
| Arsenic | mg/L | <8.1e-005 | 0.00138 J | 0.00137 J | 0.00122 J | 0.00243 J | 0.00158 J | 0.0011 J | 0.00133 J | 0.00115 J | -- | 0.00424 J |
| Barium | mg/L | 0.355 | 0.0696 | 0.0503 | 0.0468 | 0.0472 | 0.0498 | 0.0559 | 0.055 | 0.0552 | -- | 0.077 |
| Beryllium | mg/L | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 |
| Chromium | mg/L | 0.000311 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 |
| Cobalt | mg/L | <6.8e-005 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 |
| Combined Radium | pCi/L | 0.696 U | 0.508 U | 0.216 U | 0.694 | 0.614 | -0.0283 U | 0.0736 U | 0.114 U | 0.476 | -- | 0.322 U |
| Lead | mg/L | <6.8e-005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 |
| Lithium | mg/L | 0.0343 | 0.0479 J | 0.0467 J | 0.0462 J | 0.0296 J | 0.064 | 0.0683 | 0.0534 | 0.0574 | -- | 0.0481 J |
| Mercury | mg/L | <0.0003 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 |
| Molybdenum | mg/L | 0.000984 | 0.00738 J | 0.00889 J | 0.00819 J | 0.0189 | 0.00852 J | 0.00592 J | 0.00644 J | 0.00537 J | -- | 0.0134 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-17 | | | | | | | | | | |
| | | 05/15/2018 | 10/15/2018 | 04/17/2019 | 09/23/2019 | 03/16/2020 | 05/12/2020 | 09/21/2020 | 02/02/2021 | 08/03/2021 | 02/14/2022 | 08/08/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0953 J | 0.0842 J | 0.0916 J | 0.116 | 0.0894 J | 0.0862 J | 0.102 | 0.0946 J | 0.0724 J | 0.073 J | 0.0717 J |
| Calcium | mg/L | 4.53 | 3.38 | 3.86 | 5.43 | 3 | 2.95 | 3.73 | 3.3 | 2.17 | 2.1 | 2.08 |
| Chloride | mg/L | 13 | 10 | 12.7 | 16.2 | 9.95 | 9.16 | 13.8 | 10.2 | 5.75 | 7.15 | 6.21 |
| Fluoride | mg/L | 0.27 | 0.23 | 0.354 | 0.351 | 0.261 | 0.263 | 0.371 | 0.276 | 0.3 | 0.206 | 0.257 |
| pH_Field | SU | 8.3 | 8.37 | 8.36 | 8.37 | 8.45 | 8.42 | 8.22 | 8.43 | 8.6 | 8.32 | 8.38 |
| Sulfate | mg/L | 54 | 34 | 76.6 | 124 | 48.6 | 44.4 | 104 | 55.1 | 7.58 | 14.4 | 8.35 |
| TDS | mg/L | 528 | 462 | 540 | 684 | 516 | 493 | 658 | 548 | 431 | 448 | 446 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 |
| Arsenic | mg/L | 0.00352 J | 0.0018 J | 0.00343 J | 0.00631 | 0.00268 J | 0.00326 J | 0.0055 | 0.00478 | 0.000862 | 0.00112 | 0.000878 |
| Barium | mg/L | 0.0751 | 0.0682 | 0.0946 | 0.135 | 0.0883 | 0.0941 | 0.128 | 0.107 | 0.0889 | 0.0818 | 0.0837 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.00255 | 0.000408 J | 0.000337 J | 0.000309 J |
| Cobalt | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000102 J | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Combined Radium | pCi/L | 0.526 | 0.199 U | 0.00935 U | 0.983 | 0.185 U | 0.0339 U | 0.651 U | 2.53 | 0.667 U | 0.523 U | 0.0413 U |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.000175 J | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0551 | 0.0606 | 0.0574 | 0.0583 | 0.0665 | 0.0602 | 0.0579 | 0.0634 | 0.0678 | 0.0572 | 0.0646 |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00789 J | 0.00376 J | 0.00661 J | 0.011 | 0.00504 J | 0.00436 J | 0.00776 J | 0.00538 | 0.00151 | 0.00241 | 0.00154 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-19 | | | | | | | | | | |
| | | 08/01/2016 | 09/21/2016 | 10/24/2016 | 12/13/2016 | 02/07/2017 | 03/28/2017 | 04/26/2017 | 06/06/2017 | 08/22/2017 | 02/21/2018 | 05/16/2018 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0279 J | 0.0235 J | 0.0444 J | 0.0285 J | 0.03 J | 0.0309 J | 0.0273 J | 0.0212 J | 0.0294 J | -- | 0.0356 J |
| Calcium | mg/L | 39.6 | 38.1 | 34.7 | 44 | 39 | 43.9 | 42.8 | 43.1 | 40.7 | -- | 45.3 |
| Chloride | mg/L | 6.67 | 6.54 | 8.77 | 6.16 | 7.57 | 5.9 | 6.5 | 5.5 | 6.5 | -- | 6.6 |
| Fluoride | mg/L | 0.385 | 0.303 | 0.24 J | 0.188 J | 0.38 | 0.32 | 0.31 | 0.31 | 0.35 | 0.39 | 0.36 |
| pH_Field | SU | 8.05 | 8.14 | 8.55 | 8.08 | 8.61 | 7.94 | 8.26 | 8.23 | 8.1 | 8.48 | 8.12 |
| Sulfate | mg/L | 9.02 | 8.38 | 18.5 | 7.4 | 8.16 | 6.4 | 4.6 J | 5.2 | 5.3 | -- | 6 |
| TDS | mg/L | 245 | 267 | 275 | 255 | 272 | 271 | 265 | 287 | 293 | -- | 301 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | <0.0006 | <0.0006 | 0.000613 J | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 |
| Arsenic | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | 0.00138 J | 0.00114 J |
| Barium | mg/L | 0.492 | 0.371 | 0.311 | 0.374 | 0.368 | 0.391 | 0.371 | 0.33 | -- | 0.291 | 0.343 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | -- | <0.0006 | <0.0006 |
| Cadmium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0003 | <0.0003 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 |
| Cobalt | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.697 U | 1.79 | 1.53 | 0.758 | 0.473 | 0.0705 U | 0.238 U | 0.909 | -- | 0.349 U | 1.12 |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | -- | <0.001 | <0.001 |
| Lithium | mg/L | 0.0252 J | 0.0223 J | 0.0247 J | 0.0312 J | 0.0406 J | 0.0309 J | 0.0267 J | 0.0311 J | -- | 0.0472 J | 0.0391 J |
| Mercury | mg/L | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | -- | <0.00025 | <0.00025 |
| Molybdenum | mg/L | 0.00752 J | 0.0117 | 0.0198 | 0.00703 J | 0.0103 | 0.00599 J | 0.00845 J | 0.00624 J | -- | 0.00903 J | 0.00515 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|
| | | GS-AP-MW-19 | | | | | | | | | GS-AP-MW-6V | |
| | | 10/16/2018 | 04/17/2019 | 09/24/2019 | 03/24/2020 | 09/22/2020 | 02/08/2021 | 08/10/2021 | 02/22/2022 | 08/03/2022 | 09/08/2020 | 09/15/2020 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0363 J | 0.0336 J | 0.0375 J | 0.0398 J | 0.037 J | 0.0336 J | <0.03 | <0.03 | 0.0306 J | 0.0974 J | 0.0974 J |
| Calcium | mg/L | 40.9 | 38.4 | 48.4 | 41.7 | 46.9 | 56.8 | 54.8 | 54.6 | 56.4 | 1.8 | 1.74 |
| Chloride | mg/L | 6.2 | 7.27 | 5.83 | 6.29 | 6.6 | 6 | 4.85 | 4.59 | 5.35 | 50.4 | 49.8 |
| Fluoride | mg/L | 0.37 | 0.27 | 0.307 | 0.327 | 0.339 | 0.319 | 0.283 | 0.259 | 0.231 | 4.46 | 4.59 |
| pH_Field | SU | 8.22 | 8.06 | 7.8 | 7.93 | 8.17 | 7.89 | 7.72 | 7.71 | 7.87 | 8.67 | 8.76 |
| Sulfate | mg/L | 5.6 | 14.3 | 13.8 | 15.2 | 16.9 | 16.2 | 14.8 | 13.6 | 17.1 | 9.06 | 7.02 |
| TDS | mg/L | 303 | 296 | 302 | 302 | 300 | 324 | 307 | 304 | 327 | 810 | 857 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.0008 | <0.0008 |
| Arsenic | mg/L | 0.00216 J | 0.00302 J | 0.00289 J | 0.00313 J | 0.00313 J | 0.00178 | 0.00115 | 0.000814 | 0.00223 | <0.001 | <0.001 |
| Barium | mg/L | 0.35 | 0.316 | 0.356 | 0.324 | 0.337 | 0.36 | 0.347 | 0.334 | 0.348 | 0.164 | 0.16 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 |
| Chromium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000258 J | 0.000322 J | <0.000203 | 0.000212 J | <0.002 | <0.002 |
| Cobalt | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.856 | 0.507 U | 0.664 | 1.07 | 2.09 | 0.947 U | 1.42 U | 0.639 U | 0.53 U | -0.0377 U | 1.25 |
| Lead | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 |
| Lithium | mg/L | 0.0406 | 0.0429 | 0.0392 | 0.0417 | 0.0435 | 0.0368 | 0.03 | 0.0269 | 0.0416 | 0.138 | 0.136 |
| Mercury | mg/L | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00593 J | 0.00703 J | 0.00562 J | 0.00605 J | 0.0063 J | 0.00366 | 0.00269 | 0.0025 | 0.00355 | 0.00317 J | 0.00256 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-6V | | | | GS-AP-MW-21 | | | | | | |
| | | 02/03/2021 | 08/02/2021 | 02/09/2022 | 07/25/2022 | 08/02/2016 | 09/21/2016 | 10/25/2016 | 12/14/2016 | 02/08/2017 | 03/28/2017 | 04/26/2017 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.1 J | 0.101 J | 0.1 J | 0.0982 J | 0.176 | 0.0723 J | 0.0867 J | 0.092 J | 0.0803 J | 0.0804 J | 0.0801 J |
| Calcium | mg/L | 1.5 | 2.1 | 1.29 | 1.36 | 5.29 | 4.51 | 4.92 | 3.5 | 3.75 | 3.63 | 3.3 |
| Chloride | mg/L | 48 | 94.1 | 53.3 | 51.8 | 28.1 | 26.8 | 26 | 25.3 | 23.8 | 28 | 27 |
| Fluoride | mg/L | 4.28 | 4.45 | 4.35 | 4.64 | 0.282 J | 0.231 J | 0.137 J | 0.131 J | 0.25 | 0.27 | 0.24 |
| pH_Field | SU | 8.9 | 8.76 | 8.8 | 8.66 | 10.26 | 10.45 | 10.42 | 10.12 | 10.28 | 10.67 | 10.42 |
| Sulfate | mg/L | 4.29 | 14.1 | 8.6 | 6.09 | 9.14 | 8.71 | 8.54 | 11.5 | 17 | 25 | 28 |
| TDS | mg/L | 840 | 833 | 818 | 839 | 348 | 368 | 348 | 352 | 352 | 370 | 342 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.0006 | <0.0006 | <0.0006 | 0.00119 J | <0.0006 | <0.0006 | <0.0006 |
| Arsenic | mg/L | 0.000767 | 0.000936 | 0.000682 | 0.000671 | 0.0027 J | 0.00258 J | 0.00214 J | 0.00193 J | 0.00188 J | 0.00153 J | 0.00135 J |
| Barium | mg/L | 0.124 | 0.143 | 0.156 | 0.161 | 0.0535 | 0.0458 | 0.0489 | 0.0494 | 0.0449 | 0.0446 | 0.0424 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Chromium | mg/L | 0.000274 J | 0.000573 J | 0.000418 J | 0.000253 J | <0.002 | 0.00233 J | 0.00204 J | <0.002 | <0.002 | <0.002 | <0.002 |
| Cobalt | mg/L | 8.19e-005 J | 0.000114 J | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.2 U | 1.53 | 0.209 U | 0.908 | 0.665 | 0.532 U | 0.601 | 1.02 | -0.074 U | 0.3 U | 0.982 U |
| Lead | mg/L | 0.000155 J | 0.000233 | <6.8e-005 | 0.000278 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | 0.156 | 0.152 | 0.121 | 0.137 | 0.145 | 0.153 | 0.171 | 0.182 | 0.178 | 0.161 | 0.126 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 | <0.00025 |
| Molybdenum | mg/L | 0.00284 | 0.00438 | 0.00288 | 0.00208 | 0.0365 | 0.0362 | 0.0326 | 0.0345 | 0.0419 | 0.0523 | 0.0502 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-21 | | | | | | | | | | |
| | | 06/06/2017 | 08/23/2017 | 02/20/2018 | 05/15/2018 | 10/16/2018 | 04/17/2019 | 09/24/2019 | 03/18/2020 | 09/23/2020 | 02/08/2021 | 08/04/2021 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0795 J | 0.0764 J | -- | 0.0769 J | 0.0764 J | 0.0675 J | 0.0843 J | 0.0824 J | 0.0871 J | 0.0991 J | 0.0993 J |
| Calcium | mg/L | 3.24 | 6.6 | -- | 7.57 | 4.4 | 2.88 | 2.47 | 2.35 | 1.96 | 1.95 | 1.76 |
| Chloride | mg/L | 28 | 29 | -- | 27 | 31 | 32.3 | 36 | 49.5 | 56.9 | 39.8 | 54.8 |
| Fluoride | mg/L | 0.25 | 0.3 | 0.23 | 0.24 | 0.25 | 0.272 | 0.209 | 0.234 | 0.208 | 0.203 | 0.24 |
| pH_Field | SU | 10.51 | 11.91 | 11.57 | 11.26 | 11.34 | 11.71 | 11.24 | 11.37 | 10.71 | 10.69 | 10.95 |
| Sulfate | mg/L | 33 | 43 | -- | 110 | 160 | 215 | 224 | 228 | 248 | 232 | 231 |
| TDS | mg/L | 367 | 508 | -- | 438 | 520 | 582 | 630 | 661 | 642 | 684 | 594 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0006 | -- | <0.0006 | <0.0006 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 |
| Arsenic | mg/L | 0.00131 J | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.000624 | 0.000537 |
| Barium | mg/L | 0.0402 | -- | 0.0441 | 0.0456 | 0.0909 | 0.0914 | 0.114 | 0.105 | 0.157 | 0.151 | 0.148 |
| Beryllium | mg/L | <0.0006 | -- | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0002 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | -- | 0.00219 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000705 J | 0.000422 J |
| Cobalt | mg/L | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 |
| Combined Radium | pCi/L | 0.312 U | -- | 0.321 U | 1.7 | 0.586 | 0.47 U | 1.08 | 0.732 | 0.468 U | 0.667 U | 0.337 U |
| Lead | mg/L | <0.001 | -- | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.135 | -- | 0.158 | 0.174 | 0.219 | 0.312 | 0.276 | 0.379 | 0.179 | 0.239 | 0.213 |
| Mercury | mg/L | <0.00025 | -- | <0.00025 | <0.00025 | <0.00025 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.05 | -- | 0.0966 | 0.0687 | 0.061 | 0.0885 | 0.0613 | 0.102 | 0.0404 | 0.0396 | 0.0367 |

Notes:

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|-------------|------------|------------|------------|------------|------------|--------------|------------|------------|
| | | GS-AP-MW-21 | | GS-AP-MW-9V | | | | | | GS-AP-MW-12V | | |
| | | 02/08/2022 | 08/10/2022 | 03/23/2020 | 09/22/2020 | 02/02/2021 | 08/10/2021 | 02/21/2022 | 07/19/2022 | 02/21/2019 | 09/25/2019 | 03/24/2020 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.111 | 0.119 | 0.0316 J | 0.0348 J | 0.0358 J | <0.03 | 0.0326 J | 0.0327 J | 0.0303 J | 0.0347 J | 0.0343 J |
| Calcium | mg/L | 1.98 | 1.66 | 42.9 | 45.3 | 44.8 | 45.1 | 47.7 | 49.7 | 52.3 | 33.4 | 48.9 |
| Chloride | mg/L | 41.4 | 44 | 5.13 | 7.57 | 10.8 | 18.8 | 18.4 | 18.8 | 3.77 | 3.84 | 4.46 |
| Fluoride | mg/L | 0.175 | 0.186 | 0.187 | 0.174 | 0.183 | 0.166 | 0.177 | 0.159 | 0.205 | 0.185 | 0.155 |
| pH_Field | SU | 10.26 | 9.26 | 6.97 | 7.08 | 6.94 | 7.12 | 7 | 6.99 | 7.82 | 9.29 | 7.8 |
| Sulfate | mg/L | 241 | 245 | 18.7 | 21.2 | 31.2 | 32.7 | 32.4 | 37.1 | <0.5 | 1.61 | <0.5 |
| TDS | mg/L | 570 | 592 | 268 | 285 | 314 | 309 | 299 | 310 | 237 | 183 | 206 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | 0.000841 J | 0.0025 J | 0.00128 J |
| Arsenic | mg/L | 0.000459 | 0.000495 | <0.001 | <0.001 | 0.000101 J | 0.000318 | 0.000209 | 0.000185 J | <0.001 | 0.00129 J | 0.00266 J |
| Barium | mg/L | 0.132 | 0.135 | 0.215 | 0.187 | 0.17 | 0.165 | 0.161 | 0.178 | 1.35 | 1.06 | 1.43 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <0.0003 |
| Chromium | mg/L | 0.000401 J | 0.000827 J | <0.002 | <0.002 | 0.000228 J | 0.000292 J | <0.000203 | 0.000323 J | <0.002 | 0.00202 J | 0.00774 J |
| Cobalt | mg/L | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | 0.00277 J |
| Combined Radium | pCi/L | 0.529 U | 0.395 U | 0.156 U | 0.536 U | 0.154 U | 0.895 U | 0.134 U | 1.03 | 0.296 U | 1.03 | 0.877 U |
| Lead | mg/L | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | 0.00279 J |
| Lithium | mg/L | 0.0947 | 0.0868 | 0.0309 | 0.0293 | 0.0299 | 0.031 | 0.0293 | 0.029 | 0.0468 | 0.0611 | 0.0462 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.0153 | 0.00755 | <0.002 | <0.002 | 0.000538 | 0.00269 | 0.000108 J | 0.00146 | 0.00253 J | 0.00942 J | 0.00454 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-12V | | | | | GS-AP-MW-15V | | | | | |
| | | 09/23/2020 | 02/01/2021 | 08/09/2021 | 02/23/2022 | 07/20/2022 | 03/18/2020 | 09/21/2020 | 02/09/2021 | 08/03/2021 | 02/16/2022 | 08/02/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0322 J | <0.03 | <0.03 | <0.03 | <0.03 | 0.0565 J | 0.0712 J | 0.0722 J | 0.0601 J | 0.0594 J | 0.0649 J |
| Calcium | mg/L | 44.8 | 48.9 | 35.7 | 45.6 | 47.5 | 8.01 | 8.2 | 10 | 10.6 | 14.3 | 18.5 |
| Chloride | mg/L | 4.63 | 3.86 | 4.44 | 3.83 | 3.85 | 108 | 171 | 197 | 176 | 129 | 126 |
| Fluoride | mg/L | 0.176 | 0.169 | 0.187 | 0.153 | 0.18 | 0.243 | 0.372 | 0.329 | 0.278 | 0.208 | 0.206 |
| pH_Field | SU | 8.84 | 7.3 | 8.77 | 7.73 | 8.52 | 10.89 | 10.07 | 9.55 | 8.97 | 8.65 | 8.21 |
| Sulfate | mg/L | 6.56 | <0.5 | 1.85 | 0.741 J | 1.08 J | 261 | 348 | 350 | 241 | 224 | 218 |
| TDS | mg/L | 195 | 240 | 145 | 209 | 189 | 873 | 1090 | 1040 | 782 | 782 | 788 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | 0.00152 J | 0.000861 J | 0.000891 J | <0.000508 | 0.000577 J | 0.0028 J | 0.0028 J | 0.00237 | 0.000972 J | 0.000694 J | 0.00143 |
| Arsenic | mg/L | 0.00176 J | 0.00154 | 0.00112 | 0.001 | 0.00105 | 0.011 | 0.0167 | 0.0165 | 0.0105 | 0.00764 | 0.00733 |
| Barium | mg/L | 1.27 | 1.6 | 1.07 | 1.34 | 1.17 | 0.155 | 0.18 | 0.2 | 0.164 | 0.186 | 0.253 |
| Beryllium | mg/L | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | 0.00362 J | 0.00311 | 0.00146 | <0.000203 | 0.0003 J | 0.00716 J | 0.00239 J | 0.00142 | 0.000507 J | 0.000622 J | 0.000314 J |
| Cobalt | mg/L | <0.002 | 0.00129 | 0.000433 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Combined Radium | pCi/L | 1.1 | 0.944 U | 1.19 U | 1.3 | 0.596 U | 0.566 U | 0.494 U | 0.55 U | 1.13 U | 0.841 U | 0.437 U |
| Lead | mg/L | 0.0014 J | 0.0013 | 0.000476 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0409 | 0.0384 | 0.0398 | 0.0279 | 0.0309 | 0.208 | 0.116 | 0.122 | 0.0986 | 0.0788 | 0.096 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00463 J | 0.00164 | 0.00302 | 0.00144 | 0.00204 | 0.0327 | 0.0538 | 0.0522 | 0.0311 | 0.0272 | 0.0251 |

Notes:

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|-------------|-------------|--------------|------------|------------|------------|------------|
| | | GS-AP-PZ-16 | | | | | | GS-AP-MW-17V | | | | |
| | | 03/24/2020 | 09/17/2020 | 02/17/2021 | 08/09/2021 | 02/15/2022 | 07/26/2022 | 02/20/2019 | 09/24/2019 | 03/25/2020 | 09/23/2020 | 02/02/2021 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0772 J | 0.0824 J | 0.089 J | 0.0747 J | 0.0781 J | 0.0626 J | 0.0337 J | 0.0532 J | 0.0482 J | 0.0478 J | 0.0396 J |
| Calcium | mg/L | 13.9 | 9.69 | 9.59 | 18.5 | 9.3 | 13.7 | 30.6 | 29.7 | 31.1 | 29.3 | 31.8 |
| Chloride | mg/L | 5.72 | 6.57 | 6.69 | 6.22 | 5.84 | 4.94 | 3.56 | 3.69 | 3.72 | 3.74 | 3.49 |
| Fluoride | mg/L | 0.228 | 0.237 | 0.219 | 0.235 | 0.258 | 0.206 | 0.239 | 0.245 | 0.243 | 0.278 | 0.244 |
| pH_Field | SU | 7.89 | 9.15 | 8.32 | 9.09 | 9.34 | 9.29 | 7.76 | 7.65 | 7.63 | 7.53 | 7.58 |
| Sulfate | mg/L | 27.7 | 15.2 | 14.1 | 13.6 | 23.1 | 38 | 15.2 | 11.8 | 9.69 | 11.1 | 8.81 |
| TDS | mg/L | 381 | 387 | 397 | 384 | 402 | 369 | 346 | 365 | 364 | 368 | 356 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | 0.00115 J | <0.0008 | <0.0008 | <0.0008 | <0.000507 |
| Arsenic | mg/L | <0.001 | <0.001 | 0.000258 | 0.00059 | 0.00112 | 0.00761 | 0.0011 J | 0.00149 J | <0.001 | <0.001 | 0.000243 |
| Barium | mg/L | 0.295 | 0.223 | 0.27 | 0.244 | 0.177 | 0.198 | 0.191 | 0.208 | 0.314 | 0.299 | 0.308 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 |
| Chromium | mg/L | <0.002 | <0.002 | <0.000203 | 0.000403 J | 0.000264 J | 0.000271 J | <0.002 | 0.00405 J | <0.002 | <0.002 | 0.000313 J |
| Cobalt | mg/L | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | 8.11e-005 J | 7.55e-005 J | <0.002 | <0.002 | <0.002 | <0.002 | <6.8e-005 |
| Combined Radium | pCi/L | 0.847 | 0.438 U | 0.753 U | 1.47 | 1.12 U | 1.13 | 0.398 U | 0.373 U | 0.0656 U | 0.542 U | 0.448 U |
| Lead | mg/L | <0.001 | <0.001 | 0.000148 J | 0.000236 | 0.000665 | 0.000603 | 0.00189 J | <0.001 | <0.001 | <0.001 | <6.8e-005 |
| Lithium | mg/L | 0.0714 | 0.073 | 0.0762 | 0.0657 | 0.0614 | 0.0839 | 0.0671 | 0.0809 | 0.0646 | 0.0574 | 0.0585 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | <0.002 | 0.00241 J | 0.00132 | 0.00221 | 0.00266 | 0.00454 | 0.00577 J | 0.00906 J | 0.00508 J | 0.00664 J | 0.00252 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-17V | | | | GS-AP-MW-21V | | | | | | GS-AP-PZ- |
| | | 08/02/2021 | 02/14/2022 | 05/11/2022 | 08/09/2022 | 03/23/2020 | 09/23/2020 | 02/09/2021 | 08/11/2021 | 02/08/2022 | 08/09/2022 | 03/24/2020 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0368 J | 0.0386 J | -- | 0.0418 J | 0.122 | 0.126 | 0.114 | 0.0631 J | 0.0938 J | 0.0869 J | 0.0521 J |
| Calcium | mg/L | 33 | 31.4 | -- | 29.2 | 110 | 119 | 73.8 | 13.8 | 42.2 | 33 | 19.3 |
| Chloride | mg/L | 3.12 | 3.26 | -- | 3.09 | 981 | 1100 | 592 | 162 | 432 | 327 | 2.53 |
| Fluoride | mg/L | 0.276 | 0.237 | -- | 0.245 | 0.494 | 0.641 | 0.546 | 0.41 | 0.398 | 0.406 | 0.387 |
| pH_Field | SU | 7.65 | 7.43 | -- | 7.55 | 7.93 | 7.81 | 7.87 | 8.28 | 7.98 | 7.9 | 7.77 |
| Sulfate | mg/L | 10.2 | 9.09 | -- | 8.13 | 1050 | 1120 | 645 | 137 | 451 | 360 | 70.1 |
| TDS | mg/L | 333 | 365 | -- | 344 | 3410 | 3690 | 2250 | 712 | 1360 | 1240 | 412 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | -- | <0.000508 | 0.000831 J | <0.0008 | 0.000661 J | <0.000508 | <0.000508 | <0.000508 | <0.0008 |
| Arsenic | mg/L | 0.000135 J | 0.000301 | -- | 0.000807 | 0.0159 | 0.01 | 0.0063 | 0.00161 | 0.00551 | 0.00331 | 0.00367 J |
| Barium | mg/L | 0.353 | 0.315 | -- | 0.284 | 0.0574 | 0.0438 | 0.028 | 0.0535 | 0.0631 | 0.0477 | 0.104 |
| Beryllium | mg/L | <0.000406 | <0.000406 | -- | <0.000406 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | -- | <6.8e-005 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 |
| Chromium | mg/L | 0.000323 J | 0.000205 J | -- | 0.000272 J | <0.002 | <0.002 | 0.000218 J | 0.00134 | 0.00041 J | 0.000378 J | <0.002 |
| Cobalt | mg/L | <6.8e-005 | <6.8e-005 | -- | <6.8e-005 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 |
| Combined Radium | pCi/L | 0.738 U | 7.76 | 0.553 U | 0.584 U | 0.982 | 0.563 U | 0.867 U | 0.782 U | 0.467 U | 0.458 U | 0.878 |
| Lead | mg/L | <6.8e-005 | <6.8e-005 | -- | <6.8e-005 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 |
| Lithium | mg/L | 0.056 | 0.0499 | -- | 0.0555 | 0.146 | 0.137 | 0.124 | 0.048 | 0.0835 | 0.0789 | 0.0734 |
| Mercury | mg/L | <0.0003 | <0.0003 | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00206 | 0.00234 | -- | 0.00298 | 0.117 | 0.12 | 0.0983 | 0.0394 | 0.0769 | 0.051 | 0.00333 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | GS-AP-PZ-22 | | | | | GS-AP-MW-23H | | | | | |
| | | 09/17/2020 | 02/02/2021 | 08/03/2021 | 02/14/2022 | 08/09/2022 | 02/20/2019 | 09/23/2019 | 03/17/2020 | 09/17/2020 | 02/03/2021 | 07/27/2021 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0454 J | 0.0486 J | 0.0478 J | 0.047 J | 0.0437 J | 0.0498 J | 0.0641 J | 0.0504 J | 0.0637 J | 0.0425 J | 0.0461 J |
| Calcium | mg/L | 12.6 | 16.5 | 16 | 18.1 | 11.6 | 64.5 | 80.6 | 79.8 | 87.2 | 75.6 | 76.8 |
| Chloride | mg/L | 2.46 | 2.99 | 2.67 | 3.1 | 2.32 | 2.58 | 2.26 | 2.62 | 1.92 | 2.07 | 2.48 |
| Fluoride | mg/L | 0.402 | 0.389 | 0.419 | 0.422 | 0.338 | 0.188 | 0.144 | 0.241 | 0.117 | 0.156 | 0.13 |
| pH_Field | SU | 8.81 | 7.5 | 7.74 | 7.4 | 8.78 | 6.5 | 5.76 | 5.95 | 5.74 | 6.22 | 5.65 |
| Sulfate | mg/L | 79.9 | 84.1 | 74.7 | 91.1 | 53.8 | 352 | 394 | 356 | 361 | 339 | 339 |
| TDS | mg/L | 438 | 446 | 414 | 423 | 383 | 560 | 598 | 626 | 648 | 612 | 580 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | 0.000809 J | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 |
| Arsenic | mg/L | 0.00387 J | 0.00338 | 0.00296 | 0.00358 | 0.00229 | 0.0306 | 0.0369 | 0.0524 | 0.0579 | 0.0562 | 0.0494 |
| Barium | mg/L | 0.109 | 0.0891 | 0.0953 | 0.0695 | 0.106 | 0.0227 | 0.0148 | 0.0143 | 0.0146 | 0.0138 | 0.0133 |
| Beryllium | mg/L | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | <0.000203 | 0.000242 J | <0.000203 | 0.000258 J | <0.002 | <0.002 | <0.002 | <0.002 | 0.000222 J | <0.000203 |
| Cobalt | mg/L | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000512 | 0.000487 |
| Combined Radium | pCi/L | 0.896 | 1.01 U | 0.195 U | 0.67 U | 0.481 U | 0.0759 U | 0.00709 U | 0.989 | 0.66 U | 0.767 U | 0.124 U |
| Lead | mg/L | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0862 | 0.0743 | 0.0685 | 0.053 | 0.0593 | 0.031 | 0.0324 | 0.0327 | 0.0333 | 0.0319 | 0.0308 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00357 J | 0.00367 | 0.00352 | 0.0041 | 0.00284 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000902 | 0.000813 |

Notes:

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
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5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-23H | | GS-AP-MW-24H | | | | | | | | GS-AP-MW- |
| | | 02/14/2022 | 07/26/2022 | 02/26/2019 | 09/24/2019 | 03/18/2020 | 09/17/2020 | 02/02/2021 | 08/03/2021 | 02/15/2022 | 07/27/2022 | 02/27/2019 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0366 J | 0.0338 J | 0.0725 J | 0.0821 J | 0.0811 J | 0.069 J | 0.0685 J | 0.071 J | 0.0695 J | 0.0641 J | <0.02 |
| Calcium | mg/L | 74.4 | 75.9 | 45.9 | 46.5 | 44 | 45.5 | 42.4 | 43.4 | 42.4 | 46.8 | 29.1 |
| Chloride | mg/L | 13 | 12.9 | 3.33 | 2.89 | 3.5 | 3.19 | 3.06 | 2.94 | 3.18 | 3.3 | 2.87 |
| Fluoride | mg/L | 0.127 | 0.0867 J | 0.194 | 0.201 | 0.206 | 0.217 | 0.209 | 0.208 | 0.176 | 0.202 | 0.14 |
| pH_Field | SU | 5.8 | 5.73 | 7.37 | 6.59 | 7 | 7.02 | 6.93 | 6.94 | 7 | 6.98 | 7.5 |
| Sulfate | mg/L | 353 | 322 | 11.1 | 15.3 | 12.2 | 6.7 | 6.43 | 6.21 | 12.1 | 6.54 | 4.89 |
| TDS | mg/L | 592 | 626 | 252 | 253 | 250 | 250 | 259 | 191 | 241 | 252 | 266 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | 0.000807 J | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | 0.00094 J |
| Arsenic | mg/L | 0.0611 | 0.0578 | <0.001 | <0.001 | <0.001 | <0.001 | 0.000341 | 0.000333 | 0.000293 | 0.000158 J | <0.001 |
| Barium | mg/L | 0.0177 | 0.0154 | 0.881 | 1.04 | 0.964 | 0.988 | 0.952 | 1.04 | 0.992 | 1.01 | 0.622 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 |
| Chromium | mg/L | <0.000203 | 0.000252 J | <0.002 | <0.002 | <0.002 | <0.002 | 0.000382 J | 0.000284 J | 0.000294 J | 0.000396 J | <0.002 |
| Cobalt | mg/L | 0.000494 | 0.000537 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000192 J | 0.000231 | 0.000238 | 0.00029 | <0.002 |
| Combined Radium | pCi/L | 0.153 U | 0.223 U | 0.9 | 1.23 | 0.788 | 0.298 U | 1.03 U | 1.3 U | 1.16 | 0.833 U | 0.492 |
| Lead | mg/L | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 |
| Lithium | mg/L | 0.0308 | 0.032 | 0.0282 | 0.0275 | 0.0264 | 0.0237 | 0.0247 | 0.0249 | 0.0233 | 0.0253 | 0.0966 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.000831 | 0.000783 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000563 | 0.00054 | 0.000538 | 0.00053 | 0.00286 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|
| | | GS-AP-MW-26H | | | | | | | GS-AP-MW-28H | | | |
| | | 09/23/2019 | 03/25/2020 | 09/21/2020 | 02/09/2021 | 08/10/2021 | 02/15/2022 | 08/10/2022 | 03/13/2019 | 09/25/2019 | 03/16/2020 | 05/12/2020 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | <0.03 | <0.03 | 0.0334 J | <0.03 | <0.03 | <0.03 | <0.03 | 0.0819 J | 0.0784 J | 0.0751 J | 0.0719 J |
| Calcium | mg/L | 29.6 | 28.6 | 27.6 | 28.1 | 27.2 | 26.6 | 25.8 | 3.42 | 2.52 | 2.4 | 2.83 |
| Chloride | mg/L | 2.35 | 2.73 | 3.25 | 2.55 | 2.87 | 2.59 | 2.33 | 8 | 8.93 | 10.6 | 12.7 |
| Fluoride | mg/L | 0.146 | 0.131 | 0.151 | 0.112 | 0.152 | 0.101 | 0.131 | 0.187 | 0.172 | 0.183 | 0.195 |
| pH_Field | SU | 7.25 | 7.24 | 7.25 | 7.38 | 6.69 | 6.82 | 7.13 | 8.46 | 8.57 | 8.31 | 8.35 |
| Sulfate | mg/L | 16.9 | 3.25 | 4.54 | 5.76 | 4.73 | 7.16 | 4.09 | 30 | 10.2 | 9.91 | 14.3 |
| TDS | mg/L | 278 | 269 | 287 | 280 | 271 | 273 | 282 | 514 | 443 | 449 | 464 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | 0.00241 J | <0.0008 | <0.0008 | <0.0008 |
| Arsenic | mg/L | <0.001 | <0.001 | 0.00143 J | 0.000192 J | 0.000194 J | 0.000351 | 0.000161 J | 0.00142 J | <0.001 | <0.001 | 0.00135 J |
| Barium | mg/L | 0.922 | 0.868 | 0.938 | 0.775 | 0.765 | 0.726 | 0.734 | 0.164 | 0.0528 | 0.0411 | 0.0436 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Chromium | mg/L | 0.00295 J | 0.00547 J | 0.00804 J | <0.000203 | 0.000372 J | 0.000306 J | 0.000311 J | <0.002 | <0.002 | <0.002 | 0.00281 J |
| Cobalt | mg/L | <0.002 | 0.00207 J | 0.00357 J | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.404 U | 0.707 U | 1.29 | 0.674 U | 1.05 U | 1.19 | 0.178 U | 0.824 | 0.648 U | 0.762 U | 0.425 U |
| Lead | mg/L | 0.00109 J | 0.0019 J | 0.00309 J | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | 0.00208 J | <0.001 | <0.001 | <0.001 |
| Lithium | mg/L | 0.0945 | 0.0946 | 0.0958 | 0.0928 | 0.0932 | 0.083 | 0.0842 | 0.0625 | 0.0619 | 0.0627 | 0.0569 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | <0.002 | <0.002 | <0.002 | 0.000207 | 0.000157 J | 0.00011 J | 0.000106 J | 0.00555 J | 0.00338 J | 0.00463 J | 0.00644 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-28H | | | | | GS-AP-MW-29H | | | | | |
| | | 09/22/2020 | 02/17/2021 | 08/09/2021 | 02/14/2022 | 07/27/2022 | 02/27/2019 | 09/24/2019 | 03/25/2020 | 09/22/2020 | 02/03/2021 | 08/04/2021 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0728 J | 0.0748 J | 0.063 J | 0.0698 J | 0.0663 J | 0.0359 J | 0.0305 J | <0.03 | 0.175 | 0.809 | 0.447 |
| Calcium | mg/L | 2.37 | 2.02 | 1.75 | 1.62 | 1.39 | 12.1 | 32.8 | 27.8 | 28.1 | 26.1 | 17.7 |
| Chloride | mg/L | 12.2 | 10.3 | 7.85 | 8.32 | 7.71 | 3.09 | 3.11 | 3.1 | 13.2 | 18.9 | 13.8 |
| Fluoride | mg/L | 0.181 | 0.18 | 0.204 | 0.152 | 0.179 | 0.218 | 0.183 | 0.194 | 0.198 | 0.267 | 0.353 |
| pH_Field | SU | 8.24 | 8.31 | 8.5 | 8.37 | 8.43 | 8.28 | 7.11 | 7.45 | 7.42 | 7.63 | 7.68 |
| Sulfate | mg/L | 10.5 | 6.39 | 3.49 | 3.99 | 2.87 | 20.7 | 32.6 | 29.4 | 81.6 | 135 | 74 |
| TDS | mg/L | 456 | 451 | 436 | 428 | 426 | 414 | 389 | 371 | 430 | 480 | 407 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | 0.000932 J | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 |
| Arsenic | mg/L | 0.00112 J | 0.000796 | 0.000626 | 0.00054 | 0.000328 | <0.001 | 0.00155 J | 0.00141 J | 0.00109 J | 0.00794 | 0.00317 |
| Barium | mg/L | 0.0385 | 0.0297 | 0.0407 | 0.0515 | 0.049 | 0.517 | 0.712 | 0.527 | 0.499 | 0.318 | 0.264 |
| Beryllium | mg/L | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | 0.000352 J | 0.000499 J | <0.000203 | 0.000209 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.000203 | 0.000223 J |
| Cobalt | mg/L | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 |
| Combined Radium | pCi/L | 1.02 | 0.911 U | 0.706 U | 0.31 U | 0.742 U | 0.556 | 1.09 | 0.036 U | 0.591 U | 0.102 U | 1.02 U |
| Lead | mg/L | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0574 | 0.0686 | 0.0633 | 0.0544 | 0.0589 | 0.07 | 0.0509 | 0.0528 | 0.0586 | 0.0915 | 0.0809 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00616 J | 0.00454 | 0.00412 | 0.00369 | 0.00311 | <0.002 | 0.00424 J | 0.0025 J | 0.0281 | 0.0623 | 0.0377 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|---------------|------------|------------|------------|------------|------------|---------------|------------|------------|
| | | GS-AP-MW-29H | | GS-AP-MW-25HA | | | | | | GS-AP-MW-30HA | | |
| | | 02/14/2022 | 08/03/2022 | 03/24/2020 | 09/17/2020 | 02/10/2021 | 08/12/2021 | 02/16/2022 | 05/10/2022 | 08/03/2022 | 03/18/2020 | 05/13/2020 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.542 | 0.399 | 0.146 | 0.138 | 0.147 | 0.13 | 0.145 | -- | 0.15 | 0.0734 J | 0.0747 J |
| Calcium | mg/L | 14.4 | 13.7 | 2.42 | 1.99 | 2.11 | 1.79 | 1.77 | -- | 1.86 | 36 | 35.3 |
| Chloride | mg/L | 14.2 | 7.1 | 38 | 38.3 | 43.7 | 36.3 | 34.3 | -- | 30.5 | 5.14 | 4.24 |
| Fluoride | mg/L | 0.332 | 0.359 | 1.77 | 1.93 | 1.81 | 2.01 | 1.89 | -- | 2.07 | 0.634 | 0.833 |
| pH_Field | SU | 7.77 | 7.83 | 8.67 | 8.83 | 8.77 | 8.78 | 8.5 | -- | 8.55 | 7.2 | 7.27 |
| Sulfate | mg/L | 49.7 | 28.3 | 201 | 173 | 171 | 125 | 130 | -- | 81.8 | 184 | 194 |
| TDS | mg/L | 392 | 373 | 948 | 960 | 887 | 967 | 945 | -- | 897 | 612 | 624 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | -- | <0.000508 | <0.0008 | <0.0008 |
| Arsenic | mg/L | 0.00313 | 0.00248 | 0.00798 | 0.00904 | 0.00923 | 0.00888 | 0.00936 | -- | 0.0103 | 0.00813 | 0.00779 |
| Barium | mg/L | 0.231 | 0.236 | 0.147 | 0.164 | 0.208 | 0.2 | 0.23 | -- | 0.232 | 0.0791 | 0.0819 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | -- | <0.000406 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | -- | <6.8e-005 | <0.0003 | <0.0003 |
| Chromium | mg/L | <0.000203 | 0.000263 J | <0.002 | <0.002 | <0.000203 | 0.000354 J | 0.00062 J | -- | 0.000316 J | <0.002 | <0.002 |
| Cobalt | mg/L | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | 0.000108 J | -- | <6.8e-005 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.725 U | 0.535 U | -0.00194 U | -0.369 U | 0.422 U | 0.129 U | 0.763 U | 0.565 U | 0.73 U | 2.26 | 0.604 |
| Lead | mg/L | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | -- | <6.8e-005 | <0.001 | <0.001 |
| Lithium | mg/L | 0.0675 | 0.066 | 0.0461 | 0.0449 | 0.0579 | 0.0558 | 0.0504 | -- | 0.061 | 0.0528 | 0.0536 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | -- | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.0595 | 0.0341 | 0.0176 | 0.0182 | 0.0158 | 0.0125 | 0.0106 | -- | 0.00682 | 0.00603 J | 0.00519 J |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|-------------|------------|--------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-30HA | | | | | GS-AP-MW-31H | | | | | |
| | | 09/21/2020 | 02/17/2021 | 08/02/2021 | 02/08/2022 | 08/03/2022 | 03/18/2020 | 09/22/2020 | 02/01/2021 | 08/02/2021 | 02/08/2022 | 08/03/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0814 J | 0.0668 J | 0.06 J | 0.0654 J | 0.0761 J | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Calcium | mg/L | 29.4 | 29.7 | 43.8 | 47.1 | 66.1 | 6.06 | 5.31 | 4.92 | 4.6 | 5.64 | 4.85 |
| Chloride | mg/L | 3.45 | 3.69 | 4.28 | 5.81 | 5.91 | 41.3 | 27.3 | 31.2 | 38.5 | 32.5 | 21.6 |
| Fluoride | mg/L | 0.872 | 0.884 | 1.49 | 1.66 | 2.2 | 0.15 | 0.148 | 0.176 | 0.191 | 0.119 | 0.141 |
| pH_Field | SU | 7.56 | 7.29 | 7.27 | 7.35 | 7.17 | 8.73 | 8.76 | 8.66 | 8.69 | 8.53 | 8.85 |
| Sulfate | mg/L | 128 | 136 | 201 | 215 | 279 | 50.4 | 22.1 | 32.2 | 35.1 | 29.5 | 12.5 |
| TDS | mg/L | 592 | 534 | 602 | 628 | 758 | 326 | 298 | 339 | 332 | 285 | 383 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 |
| Arsenic | mg/L | 0.00551 | 0.00354 | 0.003 | 0.00331 | 0.00387 | 0.0012 J | <0.001 | 0.000325 | 0.000293 | 0.000379 | 0.000201 J |
| Barium | mg/L | 0.0811 | 0.089 | 0.0965 | 0.1 | 0.113 | 0.106 | 0.0916 | 0.0974 | 0.102 | 0.134 | 0.128 |
| Beryllium | mg/L | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | 0.000418 J | 0.000354 J | 0.000375 J | 0.000229 J | 0.00264 J | <0.002 | 0.000345 J | 0.000287 J | 0.000271 J | <0.000203 |
| Cobalt | mg/L | <0.002 | 0.00016 J | 0.000217 | 9.46e-005 J | 0.000255 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Combined Radium | pCi/L | 1.1 | 0.902 U | 1.8 | 0.806 U | 1.29 U | 0.0549 U | 0.912 | 0.189 U | 1.48 U | 0.189 U | 0.32 U |
| Lead | mg/L | <0.001 | 0.00028 | 0.000166 J | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | 0.000102 J | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0494 | 0.0548 | 0.0582 | 0.0533 | 0.07 | 0.0347 | 0.0357 | 0.0417 | 0.0411 | 0.037 | 0.0434 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00254 J | 0.0019 | 0.00394 | 0.00529 | 0.00614 | 0.0102 | 0.00438 J | 0.00447 | 0.00486 | 0.00596 | 0.00231 |

Notes:

1. mg/L - Milligrams per Liter
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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|
| | | GS-AP-MW-32H | | | | | | GS-AP-MW-33HO | | | | |
| | | 03/24/2020 | 09/21/2020 | 02/10/2021 | 08/10/2021 | 02/14/2022 | 07/27/2022 | 03/17/2020 | 05/13/2020 | 09/15/2020 | 02/03/2021 | 07/27/2021 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0492 J | 0.0455 J | 0.0477 J | 0.0393 J | 0.0447 J | 0.0414 J | 0.066 J | 0.0409 J | 0.0425 J | 0.0453 J | 0.0417 J |
| Calcium | mg/L | 2.62 | 3 | 3.24 | 3.59 | 2.27 | 2.86 | 42.3 | 25.2 | 29.5 | 30.3 | 30.5 |
| Chloride | mg/L | 20.5 | 28.2 | 39.4 | 36.6 | 29.8 | 33.2 | 108 | 63.3 | 75.6 | 55.2 | 75.3 |
| Fluoride | mg/L | 0.18 | 0.202 | 0.134 | 0.218 | 0.148 | 0.161 | 0.202 | 0.191 | 0.188 | 0.178 | 0.214 |
| pH_Field | SU | 8.47 | 8.15 | 8.03 | 8.35 | 8.22 | 7.88 | 7.67 | 7.7 | 7.66 | 7.64 | 7.59 |
| Sulfate | mg/L | 33.2 | 38.7 | 50.8 | 45.6 | 38.4 | 41.3 | 172 | 60 | 98.6 | 70.7 | 100 |
| TDS | mg/L | 331 | 357 | 379 | 379 | 354 | 357 | 827 | 457 | 538 | 443 | 472 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 |
| Arsenic | mg/L | <0.001 | <0.001 | 0.000838 | 0.000575 | 0.000615 | 0.000353 | 0.0044 J | 0.00308 J | 0.00275 J | 0.00177 | 0.00143 |
| Barium | mg/L | 0.0362 | 0.0396 | 0.0511 | 0.0475 | 0.047 | 0.0438 | 0.329 | 0.324 | 0.469 | 0.465 | 0.46 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | <0.002 | <0.000203 | 0.000268 J | 0.000262 J | 0.000353 J | <0.002 | <0.002 | <0.002 | 0.000207 J | 0.000283 J |
| Cobalt | mg/L | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 |
| Combined Radium | pCi/L | 0.313 U | 0.484 U | 0.546 U | 0.445 U | 0.371 U | 0.994 U | 2.14 | 0.415 U | -0.106 U | 0.313 U | 0.408 U |
| Lead | mg/L | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0428 | 0.0421 | 0.0471 | 0.0466 | 0.0407 | 0.0456 | 0.0516 | 0.0455 | 0.0479 | 0.0534 | 0.0563 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.0826 | 0.0896 | 0.0889 | 0.0858 | 0.0933 | 0.0865 | <0.002 | 0.00626 J | 0.00496 J | 0.00346 | 0.00574 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|---------------|------------|------------|------------|------------|------------|---------------|------------|------------|
| | | GS-AP-MW-33HO | | GS-AP-MW-34HO | | | | | | GS-AP-MW-35HO | | |
| | | 02/09/2022 | 07/26/2022 | 03/16/2020 | 05/12/2020 | 09/16/2020 | 02/03/2021 | 07/27/2021 | 02/09/2022 | 07/26/2022 | 03/17/2020 | 05/12/2020 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0416 J | <0.03 | 0.0827 J | 0.0929 J | 0.0874 J | 0.0964 J | 0.108 | 0.106 | 0.107 | <0.03 | <0.03 |
| Calcium | mg/L | 25.2 | 17.2 | 83.8 | 80.4 | 86.9 | 100 | 100 | 97.7 | 107 | 5.27 | 3.04 |
| Chloride | mg/L | 68.9 | 14.7 | 101 | 148 | 210 | 156 | 371 | 392 | 496 | 23.9 | 14.5 |
| Fluoride | mg/L | 0.131 | 0.188 | 0.338 | 0.37 | 0.364 | 0.298 | 0.408 | 0.291 | 0.393 | 0.166 | 0.167 |
| pH_Field | SU | 7.64 | 7.43 | 7.35 | 7.44 | 7.45 | 7.26 | 7.32 | 7.4 | 7.06 | 8.4 | 8.46 |
| Sulfate | mg/L | 77.8 | 15.9 | 1480 | 1330 | 1390 | 1610 | 1580 | 1570 | 1420 | 40.1 | 22.6 |
| TDS | mg/L | 471 | 271 | 2460 | 2440 | 2720 | 2930 | 2940 | 3130 | 2990 | 365 | 311 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.0008 | <0.0008 |
| Arsenic | mg/L | 0.000694 | 0.000228 | 0.00351 J | 0.00668 | 0.00308 J | 0.00257 | 0.00185 | 0.000823 | 0.000803 | 0.00105 J | <0.001 |
| Barium | mg/L | 0.449 | 0.356 | 0.0309 | 0.0379 | 0.0451 | 0.0543 | 0.0649 | 0.0615 | 0.0549 | 0.0426 | 0.0472 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 |
| Chromium | mg/L | 0.000222 J | <0.000203 | <0.002 | <0.002 | <0.002 | 0.000397 J | 0.000499 J | 0.000275 J | 0.000307 J | <0.002 | <0.002 |
| Cobalt | mg/L | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 |
| Combined Radium | pCi/L | 0.767 U | 0.771 U | -0.085 U | 0.345 U | 0.286 U | 0.485 U | 0.732 U | 0.213 U | 0.901 U | 7.32 | 1.02 |
| Lead | mg/L | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 |
| Lithium | mg/L | 0.0489 | 0.0477 | 0.205 | 0.18 | 0.18 | 0.249 | 0.205 | 0.173 | 0.189 | 0.074 | 0.0693 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00414 | 0.00195 | 0.00386 J | 0.0088 J | 0.00598 J | 0.00753 | 0.0138 | 0.00223 | 0.0104 | 0.00222 J | <0.002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-35HO | | | | | GS-AP-MW-36H | | | | | |
| | | 09/16/2020 | 02/04/2021 | 07/28/2021 | 02/09/2022 | 07/25/2022 | 03/17/2020 | 05/13/2020 | 09/17/2020 | 02/17/2021 | 08/04/2021 | 02/14/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | 0.0394 J | 0.0359 J | 0.0345 J | 0.0413 J | 0.0449 J | 0.0467 J |
| Calcium | mg/L | 3.04 | 3.3 | 2.51 | 2.11 | 1.7 | 3.45 | 2.93 | 4.12 | 3.16 | 5.78 | 4.69 |
| Chloride | mg/L | 20.9 | 23.9 | 16.7 | 18 | 9.54 | 29.4 | 27.2 | 38.5 | 24.3 | 59.8 | 77.7 |
| Fluoride | mg/L | 0.162 | 0.152 | 0.207 | 0.119 | 0.201 | 0.214 | 0.224 | 0.209 | 0.22 | 0.31 | 0.238 |
| pH_Field | SU | 8.48 | 8.35 | 8.45 | 8.55 | 8.28 | 8.44 | 8.52 | 8.18 | 8.36 | 8.37 | 8.22 |
| Sulfate | mg/L | 24.6 | 25.3 | 20.7 | 21.7 | 16 | 57.1 | 47.8 | 50.2 | 28.9 | 83.7 | 112 |
| TDS | mg/L | 326 | 339 | 302 | 322 | 296 | 362 | 333 | 348 | 292 | 449 | 514 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.0008 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 |
| Arsenic | mg/L | <0.001 | 0.000442 | 0.00024 | 0.00014 J | 0.000116 J | 0.00171 J | 0.00122 J | 0.0013 J | 0.00102 | 0.00246 | 0.00235 |
| Barium | mg/L | 0.0532 | 0.052 | 0.0492 | 0.052 | 0.0497 | 0.0353 | 0.03 | 0.0378 | 0.0463 | 0.0905 | 0.122 |
| Beryllium | mg/L | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | 0.000211 J | 0.000415 J | <0.000203 | 0.000218 J | <0.002 | <0.002 | <0.002 | 0.000271 J | 0.000317 J | <0.000203 |
| Cobalt | mg/L | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <0.002 | 0.000148 J | <6.8e-005 | <6.8e-005 |
| Combined Radium | pCi/L | 0.435 U | 0.527 U | 0.0525 U | 0.23 U | 0.682 U | 4.33 | -0.225 U | -0.125 U | 0.322 U | 1.13 | 7.37 |
| Lead | mg/L | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <0.001 | 8.8e-005 J | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0685 | 0.0734 | 0.0722 | 0.0622 | 0.0713 | 0.0342 | 0.0337 | 0.035 | 0.039 | 0.0455 | 0.0417 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | <0.002 | 0.00273 | 0.0017 | 0.00178 | 0.000692 | 0.00571 J | 0.00475 J | 0.0105 | 0.0054 | 0.017 | 0.0189 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|--------------|------------|------------|------------|------------|---------------|------------|------------|-------------|
| | | GS-AP-MW-36H | | GS-AP-MW-40H | | | | | GS-AP-MW-41HS | | | |
| | | 05/10/2022 | 07/20/2022 | 09/22/2020 | 02/02/2021 | 08/10/2021 | 02/15/2022 | 08/02/2022 | 02/08/2021 | 07/28/2021 | 02/08/2022 | 07/26/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | -- | 0.0316 J | 0.0326 J | 0.0305 J | <0.03 | 0.0321 J | <0.03 | 1.06 | 1.09 | 1.05 | 1.01 |
| Calcium | mg/L | -- | 1.25 | 205 | 199 | 197 | 210 | 211 | 49.8 | 45.1 | 30.6 | 35.7 |
| Chloride | mg/L | -- | 10.6 | 30.4 | 36.8 | 28 | 18 | 12.7 | 9.18 | 8.34 | 6.72 | 7.24 |
| Fluoride | mg/L | -- | 0.186 | 0.114 | 0.123 | 0.113 | 0.0854 J | 0.151 | 0.152 | 0.172 | 0.117 | 0.121 J |
| pH_Field | SU | -- | 8.05 | 6.64 | 6.55 | 6.56 | 6.6 | 6.47 | 6.77 | 6.86 | 6.66 | 6.19 |
| Sulfate | mg/L | -- | 11 | 626 | 644 | 661 | 684 | 732 | 95.1 | 103 | 105 | 109 |
| TDS | mg/L | -- | 248 | 1310 | 1320 | 1240 | 1230 | 1220 | 317 | 283 | 265 | 265 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | -- | <0.000508 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.000507 | <0.000508 | <0.000508 | <0.000508 |
| Arsenic | mg/L | -- | 0.0004 | 0.00193 J | 0.000958 | 0.000457 | 0.0004 | 0.000294 | 0.000551 | 0.000383 | 0.00141 | 0.000436 |
| Barium | mg/L | -- | 0.0377 | 0.0417 | 0.0384 | 0.0358 | 0.0298 | 0.028 | 0.0544 | 0.0445 | 0.0542 | 0.0497 |
| Beryllium | mg/L | -- | <0.000406 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | -- | <6.8e-005 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | -- | 0.000451 J | <0.002 | 0.000222 J | 0.00032 J | <0.000203 | 0.000234 J | <0.000203 | 0.000311 J | 0.000348 J | 0.000309 J |
| Cobalt | mg/L | -- | <6.8e-005 | 0.0027 J | 0.002 | 0.0011 | 0.000471 | 0.000206 | 0.00175 | 0.000294 | 0.00378 | 0.0023 |
| Combined Radium | pCi/L | 1.03 U | 0.473 U | 1.91 | 0.369 U | 0.91 U | 0.64 U | 0.608 U | 0.49 U | 0.759 U | 0.267 U | 0.728 U |
| Lead | mg/L | -- | <6.8e-005 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | 7.44e-005 J |
| Lithium | mg/L | -- | 0.0303 | 0.0405 | 0.0571 | 0.0567 | 0.0539 | 0.0598 | 0.14 | 0.178 | 0.0844 | 0.0954 |
| Mercury | mg/L | -- | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | -- | 0.00183 | 0.00293 J | 0.00257 | 0.00171 | 0.002 | 0.000929 | 0.00288 | 0.0044 | 0.00126 | 0.000889 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|-------------|------------|------------|------------|---------------|------------|------------|------------|------------|
| | | GS-AP-MW-38H | | | | | | GS-AP-MW-41HD | | | | |
| | | 03/24/2020 | 09/22/2020 | 02/09/2021 | 08/04/2021 | 02/22/2022 | 08/10/2022 | 03/18/2020 | 09/17/2020 | 02/08/2021 | 08/03/2021 | 02/15/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.0468 J | 0.0461 J | 0.0504 J | 0.0479 J | 0.0452 J | 0.0498 J | 1.45 | 1.42 | 1.48 | 1.48 | 1.5 |
| Calcium | mg/L | 9.33 | 9.56 | 10.6 | 12.2 | 10.8 | 12.6 | 56.6 | 61.1 | 60.8 | 57.1 | 57.3 |
| Chloride | mg/L | 12.6 | 24.8 | 28.1 | 33.1 | 31 | 59.3 | 6.02 | 6.63 | 6.44 | 6.07 | 6.67 |
| Fluoride | mg/L | 0.291 | 0.28 | 0.243 | 0.305 | 0.239 | 0.231 | 0.165 | 0.16 | 0.138 | 0.15 | 0.125 |
| pH_Field | SU | 7.99 | 7.96 | 8.06 | 7.75 | 7.89 | 7.49 | 7.2 | 7.22 | 7.36 | 6.97 | 7.35 |
| Sulfate | mg/L | 16.7 | 27 | 27 | 32.3 | 27.9 | 58.6 | 122 | 105 | 111 | 94.1 | 110 |
| TDS | mg/L | 335 | 339 | 355 | 368 | 345 | 456 | 309 | 318 | 326 | 307 | 307 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 |
| Arsenic | mg/L | 0.00302 J | 0.00304 J | 0.0026 | 0.00287 | 0.00183 | 0.00236 | <0.001 | 0.0016 J | 0.00148 | 0.00289 | 0.0032 |
| Barium | mg/L | 0.253 | 0.319 | 0.356 | 0.359 | 0.301 | 0.273 | 0.0393 | 0.0414 | 0.0434 | 0.045 | 0.0449 |
| Beryllium | mg/L | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | <0.002 | <0.002 | <0.000203 | <0.000203 | <0.000203 | 0.000322 J | <0.002 | <0.002 | 0.000235 J | 0.000251 J | <0.000203 |
| Cobalt | mg/L | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | 0.000585 | 0.000849 | 0.000996 |
| Combined Radium | pCi/L | 0.862 | 1.1 | 0.746 U | 0.844 U | 0.341 U | 0.411 U | 0.64 | 0.14 U | 0.409 U | 0.453 U | 0.256 U |
| Lead | mg/L | <0.001 | <0.001 | 8.23e-005 J | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0632 | 0.0591 | 0.0676 | 0.0672 | 0.0594 | 0.0625 | 0.311 | 0.341 | 0.356 | 0.369 | 0.352 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00445 J | 0.00423 J | 0.00267 | 0.00377 | 0.0024 | 0.00406 | 0.0158 | 0.026 | 0.0284 | 0.0286 | 0.0322 |

Notes:

1. mg/L - Milligrams per Liter
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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|--------------|------------|------------|------------|------------|------------|---------------|------------|------------|------------|
| | | GS-AP-MW- | GS-AP-MW-42H | | | | | | GS-AP-MW-43HO | | | |
| | | 07/27/2022 | 03/24/2020 | 09/22/2020 | 02/03/2021 | 08/04/2021 | 02/16/2022 | 07/27/2022 | 03/25/2020 | 09/22/2020 | 02/17/2021 | 08/04/2021 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 1.62 | <0.03 | 0.0469 J | 0.053 J | 0.0578 J | 0.0502 J | 0.05 J | 0.112 | 0.12 | 0.119 | 0.126 |
| Calcium | mg/L | 57.5 | 149 | 142 | 134 | 133 | 138 | 158 | 4.11 | 2.82 | 4.82 | 4.58 |
| Chloride | mg/L | 7.18 | 3.35 | 7.07 | 10.1 | 9.75 | 8.61 | 9.12 | 90.6 | 78 | 96.3 | 69.4 |
| Fluoride | mg/L | 0.122 J | 0.13 | 0.121 | 0.131 | 0.203 | 0.0837 J | 0.116 J | 0.204 | 0.216 | 0.174 | 0.289 |
| pH_Field | SU | 7.16 | 6.28 | 6.51 | 6.47 | 6.41 | 6.54 | 6.59 | 8.24 | 8.66 | 8.72 | 8.75 |
| Sulfate | mg/L | 116 | 449 | 372 | 373 | 372 | 396 | 363 | 327 | 269 | 285 | 301 |
| TDS | mg/L | 305 | 850 | 800 | 768 | 740 | 774 | 728 | 930 | 910 | 853 | 855 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.0008 | <0.0008 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.0008 | <0.0008 | <0.000507 | <0.000508 |
| Arsenic | mg/L | 0.00295 | 0.00944 | 0.00912 | 0.00806 | 0.00846 | 0.00762 | 0.00897 | 0.00509 | 0.0039 J | 0.00132 | 0.00125 |
| Barium | mg/L | 0.0463 | 0.0253 | 0.0237 | 0.0216 | 0.0256 | 0.0214 | 0.0228 | 0.0927 | 0.0921 | 0.0894 | 0.102 |
| Beryllium | mg/L | <0.000406 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <6.8e-005 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | 0.000264 J | <0.002 | <0.002 | 0.000298 J | 0.000262 J | <0.000203 | 0.000239 J | <0.002 | <0.002 | 0.000219 J | 0.00031 J |
| Cobalt | mg/L | 0.000958 | 0.00218 J | <0.002 | 0.000752 | 0.000616 | 0.000453 | 0.000408 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 |
| Combined Radium | pCi/L | 0.42 U | 0.0821 U | 0.36 U | 0.475 U | 0.186 U | 0.275 U | 1.06 U | 0.678 U | 0.0466 U | 0.629 U | 0.949 U |
| Lead | mg/L | <6.8e-005 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.001 | <0.001 | 0.000328 | 0.000265 |
| Lithium | mg/L | 0.413 | 0.0346 | 0.0333 | 0.0356 | 0.0348 | 0.0313 | 0.0342 | 0.0505 | 0.0587 | 0.0723 | 0.0706 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.0351 | <0.002 | <0.002 | 0.00174 | 0.00169 | 0.00177 | 0.00131 | <0.002 | <0.002 | 0.00292 | 0.00385 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|---------------------|-------|------------------------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-43HO | | GAP-B-01 | GAP-B-02 | GAP-B-66 | GS-AP-MW-44HO | | | | | |
| | | 02/21/2022 | 08/03/2022 | 03/19/2019 | 03/19/2019 | 03/20/2019 | 08/27/2020 | 09/15/2020 | 02/03/2021 | 07/27/2021 | 02/09/2022 | 07/20/2022 |
| Appendix III | | | | | | | | | | | | |
| Boron | mg/L | 0.13 | 0.139 | 4.07 | 3.54 | 4.45 | 0.0366 J | 0.0404 J | 0.0472 J | 0.043 J | 0.043 J | 0.0422 J |
| Calcium | mg/L | 4.09 | 4.82 | 125 | 125 | 180 | 2.89 | 2.94 | 2.87 | 1.46 | 1.16 | 1.24 |
| Chloride | mg/L | 104 | 84.5 | 6.38 | 6.24 | 12.1 | 27.1 | 36.2 | 44.8 | 33.8 | 28.9 | 30.1 |
| Fluoride | mg/L | 0.226 | 0.173 | <0.05 | <0.05 | 0.0756 J | 0.174 | 0.221 | 0.181 | 0.254 | 0.138 | 0.146 |
| pH_Field | SU | 8.58 | 8.51 | 10.11 | 10.2 | 7.28 | 8.9 | 8.94 | 8.9 | 9.04 | 8.94 | 9.02 |
| Sulfate | mg/L | 347 | 250 | 329 | 248 | 270 | 33.5 | 71.6 | 57 | 38.6 | 30.3 | 27 |
| TDS | mg/L | 894 | 864 | 596 | 485 | 702 | 435 | 564 | 592 | 510 | 478 | 464 |
| Appendix IV | | | | | | | | | | | | |
| Antimony | mg/L | <0.000508 | <0.000508 | 0.0131 | 0.00601 | 0.00483 | 0.0013 J | 0.000819 J | <0.000507 | <0.000508 | <0.000508 | <0.000508 |
| Arsenic | mg/L | 0.000889 | 0.000967 | 0.311 | 0.174 | 0.416 | 0.00321 J | 0.00184 J | 0.000795 | 0.000373 | 0.000328 | 0.000356 |
| Barium | mg/L | 0.0825 | 0.0956 | 0.201 | 0.235 | 0.131 | 0.0867 | 0.0783 | 0.0602 | 0.0758 | 0.0731 | 0.0697 |
| Beryllium | mg/L | <0.000406 | <0.000406 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.0006 | <0.000406 | <0.000406 | <0.000406 | <0.000406 |
| Cadmium | mg/L | <6.8e-005 | <6.8e-005 | 0.000878 J | 0.000781 J | <0.0003 | <0.0003 | <0.0003 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Chromium | mg/L | 0.000272 J | 0.000253 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | 0.000255 J | <0.000203 | 0.000291 J | 0.000267 J |
| Cobalt | mg/L | <6.8e-005 | <6.8e-005 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Combined Radium | pCi/L | 0.509 U | 0.252 U | -- | -- | -- | 0.798 | 0.311 U | 0.145 U | 0.48 U | 0.793 U | 0.0778 U |
| Lead | mg/L | 0.000116 J | <6.8e-005 | 0.00138 J | <0.001 | <0.001 | <0.001 | <0.001 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |
| Lithium | mg/L | 0.0579 | 0.0749 | 0.574 | 1.04 | 1.68 | 0.0411 | 0.0494 | 0.063 | 0.0568 | 0.045 | 0.0526 |
| Mercury | mg/L | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Molybdenum | mg/L | 0.00309 | 0.00471 | 2.98 | 2.73 | 0.335 | 0.0071 J | 0.00858 J | 0.00429 | 0.00361 | 0.00335 | 0.00333 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|------------|
| | | GS-AP-MW-10R | | GS-AP-MW-11R | | GS-AP-MW-13R | | GS-AP-MW-14R | | GS-AP-MW-18R | | GS-AP-MW- |
| | | 03/01/2022 | 08/03/2022 | 03/01/2022 | 07/19/2022 | 03/01/2022 | 07/20/2022 | 02/28/2022 | 08/03/2022 | 02/22/2022 | 08/03/2022 | 02/22/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|-------------|------------|--------------|------------|---------------|------------|--------------|------------|--------------|------------|
| | | GS-AP-MW- | GS-AP-MW-1R | | GS-AP-MW-23V | | GS-AP-MW-27HR | | GS-AP-MW-31V | | GS-AP-MW-36V | |
| | | 08/09/2022 | 03/01/2022 | 08/02/2022 | 02/23/2022 | 07/26/2022 | 02/22/2022 | 07/27/2022 | 02/22/2022 | 08/03/2022 | 02/22/2022 | 07/27/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 |
| Thallium | mg/L | 7.72e-005 J | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|-------------|------------|--------------|------------|-------------|------------|-------------|------------|------------|
| | | GS-AP-MW-37HR | | GS-AP-MW-3V | | GS-AP-MW-45V | | GS-AP-MW-46 | | GS-AP-MW-47 | | GS-AP-MW- |
| | | 02/28/2022 | 07/26/2022 | 02/23/2022 | 07/20/2022 | 02/23/2022 | 08/08/2022 | 02/23/2022 | 08/02/2022 | 02/28/2022 | 07/26/2022 | 03/01/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | 0.00164 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|-------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW- | GS-AP-MW-9R | | GS-AP-PZ-18R | | GS-AP-MW-2 | | | | | |
| | | 08/02/2022 | 03/01/2022 | 07/19/2022 | 02/21/2022 | 07/27/2022 | 08/02/2016 | 09/19/2016 | 10/24/2016 | 12/13/2016 | 02/08/2017 | 03/30/2017 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-2 | | | | | | | | | | |
| | | 04/26/2017 | 06/06/2017 | 08/21/2017 | 02/21/2018 | 05/16/2018 | 10/16/2018 | 04/17/2019 | 09/25/2019 | 03/25/2020 | 05/13/2020 | 09/22/2020 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <0.0002 | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|
| | | GS-AP-MW-2 | | | | GS-AP-MW-3 | | | | GS-AP-MW-6S | | |
| | | 02/01/2021 | 08/04/2021 | 02/22/2022 | 07/19/2022 | 02/17/2021 | 08/03/2021 | 02/16/2022 | 07/20/2022 | 08/03/2016 | 09/20/2016 | 10/26/2016 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000507 | <0.000508 | <0.000508 | 0.00119 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-6S | | | | | | | | | | |
| | | 12/12/2016 | 02/06/2017 | 03/27/2017 | 04/24/2017 | 06/06/2017 | 08/21/2017 | 02/19/2018 | 05/14/2018 | 10/15/2018 | 04/16/2019 | 09/23/2019 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
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ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|
| | | GS-AP-MW-6S | | | | | | GS-AP-MW-6D | | | | |
| | | 03/17/2020 | 09/16/2020 | 02/03/2021 | 07/27/2021 | 02/14/2022 | 07/26/2022 | 08/03/2016 | 09/20/2016 | 10/24/2016 | 12/12/2016 | 02/06/2017 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | 0.000794 J | 0.00124 | 0.000854 J | 0.00086 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-6D | | | | | | | | | | |
| | | 03/27/2017 | 04/24/2017 | 06/06/2017 | 08/21/2017 | 02/19/2018 | 05/14/2018 | 10/15/2018 | 04/16/2019 | 09/23/2019 | 03/17/2020 | 09/17/2020 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-6D | | | | GS-AP-MW-7 | | | | | | |
| | | 02/03/2021 | 07/27/2021 | 02/14/2022 | 07/25/2022 | 08/02/2016 | 09/21/2016 | 10/24/2016 | 12/12/2016 | 02/06/2017 | 03/28/2017 | 04/24/2017 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000507 | <0.000508 | 0.000612 J | <0.000508 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-7 | | | | | | | | | | |
| | | 06/07/2017 | 08/21/2017 | 02/19/2018 | 05/15/2018 | 10/15/2018 | 04/23/2019 | 09/24/2019 | 03/17/2020 | 09/16/2020 | 02/02/2021 | 08/09/2021 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 |
| Thallium | mg/L | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-7 | | GS-AP-MW-8 | | | | | | | | |
| | | 02/08/2022 | 07/25/2022 | 08/03/2016 | 09/21/2016 | 10/25/2016 | 12/13/2016 | 02/06/2017 | 03/28/2017 | 04/24/2017 | 06/07/2017 | 08/21/2017 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-8 | | | | | | | | | | |
| | | 02/19/2018 | 05/15/2018 | 10/16/2018 | 04/16/2019 | 09/24/2019 | 03/18/2020 | 09/21/2020 | 02/02/2021 | 08/10/2021 | 02/16/2022 | 08/02/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-12 | | | | | | | | | | |
| | | 08/03/2016 | 09/20/2016 | 10/25/2016 | 12/13/2016 | 02/08/2017 | 03/29/2017 | 04/26/2017 | 06/07/2017 | 08/22/2017 | 02/20/2018 | 05/15/2018 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|
| | | GS-AP-MW-12 | | | | | | | | | GS-AP-MW-15 | |
| | | 10/16/2018 | 04/16/2019 | 09/25/2019 | 03/18/2020 | 09/23/2020 | 02/01/2021 | 08/09/2021 | 02/28/2022 | 07/19/2022 | 08/01/2016 | 09/20/2016 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-15 | | | | | | | | | | |
| | | 10/25/2016 | 12/14/2016 | 02/08/2017 | 03/28/2017 | 04/26/2017 | 06/06/2017 | 08/22/2017 | 02/20/2018 | 05/15/2018 | 10/15/2018 | 04/17/2019 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|
| | | GS-AP-MW-15 | | | | | | GS-AP-MW-16S | | | | |
| | | 09/24/2019 | 03/18/2020 | 09/23/2020 | 02/09/2021 | 08/03/2021 | 02/16/2022 | 08/02/2022 | 09/21/2020 | 02/10/2021 | 06/09/2021 | 08/03/2021 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.000507 | <0.000507 | <0.000508 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-16S | | | GS-AP-MW-16D | | | | | | | |
| | | 02/15/2022 | 05/11/2022 | 08/02/2022 | 08/01/2016 | 09/19/2016 | 10/25/2016 | 12/13/2016 | 02/08/2017 | 03/29/2017 | 04/26/2017 | 06/06/2017 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | -- | 0.000526 J | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <6.8e-005 | -- | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-16D | | | | | | | | | | |
| | | 08/22/2017 | 02/21/2018 | 05/16/2018 | 10/17/2018 | 04/17/2019 | 09/24/2019 | 03/24/2020 | 09/22/2020 | 02/10/2021 | 08/09/2021 | 02/15/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 |
| Thallium | mg/L | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW- | GS-AP-MW-17 | | | | | | | | | |
| | | 08/02/2022 | 08/01/2016 | 09/19/2016 | 10/24/2016 | 12/13/2016 | 02/06/2017 | 03/27/2017 | 04/24/2017 | 06/05/2017 | 08/22/2017 | 02/19/2018 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 |
| Thallium | mg/L | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-17 | | | | | | | | | | |
| | | 05/15/2018 | 10/15/2018 | 04/17/2019 | 09/23/2019 | 03/16/2020 | 05/12/2020 | 09/21/2020 | 02/02/2021 | 08/03/2021 | 02/14/2022 | 08/08/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-19 | | | | | | | | | | |
| | | 08/01/2016 | 09/21/2016 | 10/24/2016 | 12/13/2016 | 02/07/2017 | 03/28/2017 | 04/26/2017 | 06/06/2017 | 08/22/2017 | 02/21/2018 | 05/16/2018 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | -- | <0.002 | <0.002 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | -- | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|
| | | GS-AP-MW-19 | | | | | | | | | GS-AP-MW-6V | |
| | | 10/16/2018 | 04/17/2019 | 09/24/2019 | 03/24/2020 | 09/22/2020 | 02/08/2021 | 08/10/2021 | 02/22/2022 | 08/03/2022 | 09/08/2020 | 09/15/2020 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-6V | | | | GS-AP-MW-21 | | | | | | |
| | | 02/03/2021 | 08/02/2021 | 02/09/2022 | 07/25/2022 | 08/02/2016 | 09/21/2016 | 10/25/2016 | 12/14/2016 | 02/08/2017 | 03/28/2017 | 04/26/2017 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-21 | | | | | | | | | | |
| | | 06/06/2017 | 08/23/2017 | 02/20/2018 | 05/15/2018 | 10/16/2018 | 04/17/2019 | 09/24/2019 | 03/18/2020 | 09/23/2020 | 02/08/2021 | 08/04/2021 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | -- | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 |
| Thallium | mg/L | <0.0002 | -- | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|-------------|------------|------------|------------|------------|------------|--------------|------------|------------|
| | | GS-AP-MW-21 | | GS-AP-MW-9V | | | | | | GS-AP-MW-12V | | |
| | | 02/08/2022 | 08/10/2022 | 03/23/2020 | 09/22/2020 | 02/02/2021 | 08/10/2021 | 02/21/2022 | 07/19/2022 | 02/21/2019 | 09/25/2019 | 03/24/2020 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-12V | | | | | GS-AP-MW-15V | | | | | |
| | | 09/23/2020 | 02/01/2021 | 08/09/2021 | 02/23/2022 | 07/20/2022 | 03/18/2020 | 09/21/2020 | 02/09/2021 | 08/03/2021 | 02/16/2022 | 08/02/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 |
| Thallium | mg/L | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|
| | | GS-AP-PZ-16 | | | | | | GS-AP-MW-17V | | | | |
| | | 03/24/2020 | 09/17/2020 | 02/17/2021 | 08/09/2021 | 02/15/2022 | 07/26/2022 | 02/20/2019 | 09/24/2019 | 03/25/2020 | 09/23/2020 | 02/02/2021 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 |
| Thallium | mg/L | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-17V | | | | GS-AP-MW-21V | | | | | | GS-AP-PZ- |
| | | 08/02/2021 | 02/14/2022 | 05/11/2022 | 08/09/2022 | 03/23/2020 | 09/23/2020 | 02/09/2021 | 08/11/2021 | 02/08/2022 | 08/09/2022 | 03/24/2020 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.000508 | -- | <0.000508 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | -- | <6.8e-005 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | GS-AP-PZ-22 | | | | | GS-AP-MW-23H | | | | | |
| | | 09/17/2020 | 02/02/2021 | 08/03/2021 | 02/14/2022 | 08/09/2022 | 02/20/2019 | 09/23/2019 | 03/17/2020 | 09/17/2020 | 02/03/2021 | 07/27/2021 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 |
| Thallium | mg/L | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-23H | | GS-AP-MW-24H | | | | | | | | GS-AP-MW- |
| | | 02/14/2022 | 07/26/2022 | 02/26/2019 | 09/24/2019 | 03/18/2020 | 09/17/2020 | 02/02/2021 | 08/03/2021 | 02/15/2022 | 07/27/2022 | 02/27/2019 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|------------|--------------|------------|------------|------------|
| | | GS-AP-MW-26H | | | | | | | GS-AP-MW-28H | | | |
| | | 09/23/2019 | 03/25/2020 | 09/21/2020 | 02/09/2021 | 08/10/2021 | 02/15/2022 | 08/10/2022 | 03/13/2019 | 09/25/2019 | 03/16/2020 | 05/12/2020 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.002 |
| Thallium | mg/L | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-28H | | | | | GS-AP-MW-29H | | | | | |
| | | 09/22/2020 | 02/17/2021 | 08/09/2021 | 02/14/2022 | 07/27/2022 | 02/27/2019 | 09/24/2019 | 03/25/2020 | 09/22/2020 | 02/03/2021 | 08/04/2021 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 |
| Thallium | mg/L | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|---------------|------------|------------|------------|------------|------------|------------|---------------|------------|
| | | GS-AP-MW-29H | | GS-AP-MW-25HA | | | | | | | GS-AP-MW-30HA | |
| | | 02/14/2022 | 08/03/2022 | 03/24/2020 | 09/17/2020 | 02/10/2021 | 08/12/2021 | 02/16/2022 | 05/10/2022 | 08/03/2022 | 03/18/2020 | 05/13/2020 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.000508 | <0.002 | 0.00636 J | <0.000507 | <0.000508 | <0.000508 | -- | <0.000508 | <0.002 | <0.002 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | -- | <6.8e-005 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-30HA | | | | | GS-AP-MW-31H | | | | | |
| | | 09/21/2020 | 02/17/2021 | 08/02/2021 | 02/08/2022 | 08/03/2022 | 03/18/2020 | 09/22/2020 | 02/01/2021 | 08/02/2021 | 02/08/2022 | 08/03/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.000507 | <0.000508 | 0.0144 | <0.000508 |
| Thallium | mg/L | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|
| | | GS-AP-MW-32H | | | | | | GS-AP-MW-33HO | | | | |
| | | 03/24/2020 | 09/21/2020 | 02/10/2021 | 08/10/2021 | 02/14/2022 | 07/27/2022 | 03/17/2020 | 05/13/2020 | 09/15/2020 | 02/03/2021 | 07/27/2021 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 |
| Thallium | mg/L | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|---------------|------------|------------|------------|------------|------------|---------------|------------|------------|
| | | GS-AP-MW-33HO | | GS-AP-MW-34HO | | | | | | GS-AP-MW-35HO | | |
| | | 02/09/2022 | 07/26/2022 | 03/16/2020 | 05/12/2020 | 09/16/2020 | 02/03/2021 | 07/27/2021 | 02/09/2022 | 07/26/2022 | 03/17/2020 | 05/12/2020 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-35HO | | | | | GS-AP-MW-36H | | | | | |
| | | 09/16/2020 | 02/04/2021 | 07/28/2021 | 02/09/2022 | 07/25/2022 | 03/17/2020 | 05/13/2020 | 09/17/2020 | 02/17/2021 | 08/04/2021 | 02/14/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | 0.000768 J |
| Thallium | mg/L | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|--------------|------------|------------|------------|------------|---------------|------------|------------|------------|
| | | GS-AP-MW-36H | | GS-AP-MW-40H | | | | | GS-AP-MW-41HS | | | |
| | | 05/10/2022 | 07/20/2022 | 09/22/2020 | 02/02/2021 | 08/10/2021 | 02/15/2022 | 08/02/2022 | 02/08/2021 | 07/28/2021 | 02/08/2022 | 07/26/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | -- | <0.000508 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.000507 | <0.000508 | <0.000508 | <0.000508 |
| Thallium | mg/L | -- | <6.8e-005 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|
| | | GS-AP-MW-38H | | | | | | GS-AP-MW-41HD | | | | |
| | | 03/24/2020 | 09/22/2020 | 02/09/2021 | 08/04/2021 | 02/22/2022 | 08/10/2022 | 03/18/2020 | 09/17/2020 | 02/08/2021 | 08/03/2021 | 02/15/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 |
| Thallium | mg/L | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|--------------|------------|------------|------------|------------|------------|---------------|------------|------------|------------|
| | | GS-AP-MW- | GS-AP-MW-42H | | | | | | GS-AP-MW-43HO | | | |
| | | 07/27/2022 | 03/24/2020 | 09/22/2020 | 02/03/2021 | 08/04/2021 | 02/16/2022 | 07/27/2022 | 03/25/2020 | 09/22/2020 | 02/17/2021 | 08/04/2021 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 | <0.002 | <0.002 | <0.000507 | <0.000508 |
| Thallium | mg/L | <6.8e-005 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

| Analyte | Units | GROUNDWATER MONITORING WELLS | | | | | | | | | | |
|--------------------|-------|------------------------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|------------|
| | | GS-AP-MW-43HO | | GAP-B-01 | GAP-B-02 | GAP-B-66 | GS-AP-MW-44HO | | | | | |
| | | 02/21/2022 | 08/03/2022 | 03/19/2019 | 03/19/2019 | 03/20/2019 | 08/27/2020 | 09/15/2020 | 02/03/2021 | 07/27/2021 | 02/09/2022 | 07/20/2022 |
| Appendix IV | | | | | | | | | | | | |
| Selenium | mg/L | <0.000508 | <0.000508 | 0.00234 J | 0.0022 J | <0.002 | <0.002 | <0.002 | <0.000507 | <0.000508 | <0.000508 | <0.000508 |
| Thallium | mg/L | <6.8e-005 | <6.8e-005 | 0.000211 J | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <6.8e-005 | <6.8e-005 | <6.8e-005 | <6.8e-005 |

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.



ANALYTICAL DATA SUMMARY
Ash Pond (08/01/2016 - 08/10/2022)
APC Plant Gorgas
Walker County Alabama

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Values are displayed as less than the PQL with a J.
4. < - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect. Value is displayed as less than the PQL.
5. Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
6. Annual sampling for Appendix IV constituents only was completed following initiation of assessment monitoring. Appendix III constituents were not required during this monitoring event.

Appendix B



Appendix B. Historical Groundwater Elevations Summary

Plant Gorgas Ash Pond
08/01/2016 - 07/18/2022

| Well | Hydraulic Location | Geologic Unit | Measure Date | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------------------|-------------------------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| | | | 08/01/16 | 09/19/16 | 10/24/16 | 12/12/16 | 02/06/17 | 03/27/17 | 04/24/17 | 06/05/17 | 08/21/17 | 02/19/18 | 04/02/18 | 05/14/18 | 10/15/18 | 03/13/19 | 04/15/19 | 09/23/19 | 03/16/20 | 09/14/20 | 02/01/21 | 06/09/21 | 07/26/21 | 02/07/22 | 07/18/22 | |
| GS-AP-MW-8 | Upgradient | Pottsville Fm - Pratt Strata | 388.05 | | 386.81 | 387.48 | 388.46 | 388.59 | 389.32 | 389.28 | 389.87 | 391.02 | 390.73 | 391.08 | 389.43 | 391.66 | 391.88 | 387.52 | 390.10 | 389.42 | 390.61 | 390.32 | 390.70 | 391.47 | 391.20 | |
| GS-AP-MW-17V | Upgradient | Pottsville Fm - Shallow Water Table | | | | | | | | | | | | | | 424.68 | | 419.40 | 425.61 | 423.83 | 426.50 | 425.16 | 426.11 | 425.19 | 422.40 | |
| GS-AP-MW-10R | Downgradient | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | 308.13 | 306.74 | |
| GS-AP-MW-11R | Downgradient | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | | 382.16 | 381.41 | 378.68 |
| GS-AP-MW-13R | Downgradient | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | | | 361.99 | 359.58 |
| GS-AP-MW-14R | Downgradient | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | | | 370.38 | 369.46 |
| GS-AP-MW-18R | Downgradient | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | | | 422.48 | 422.78 |
| GS-AP-MW-18VR | Downgradient | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | | | 292.37 | 253.38 |
| GS-AP-MW-1R | Downgradient | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | | 326.46 | 308.46 |
| GS-AP-MW-3V | Downgradient | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | | 363.87 | 359.40 |
| GS-AP-MW-45V | Downgradient | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | | 352.05 | 347.30 |
| GS-AP-MW-46 | Downgradient | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | | | 366.65 | 359.83 |
| GS-AP-MW-47 | Downgradient | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | | 357.20 | 352.26 |
| GS-AP-MW-5R | Downgradient | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | | 347.20 | 344.43 |
| GS-AP-MW-9R | Downgradient | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | | | 361.49 | 360.71 |
| GS-AP-MW-2 | Downgradient | Pottsville Fm - Pratt Strata | 376.68 | | 376.33 | 376.28 | 376.54 | 376.63 | 376.63 | 376.58 | 376.47 | 376.69 | 376.59 | 376.49 | 376.18 | 376.50 | 376.10 | 373.88 | 375.95 | 374.26 | 375.70 | 375.16 | 375.29 | 375.13 | 371.91 | |
| GS-AP-MW-3 | Downgradient | Pottsville Fm - Pratt Strata | 374.70 | | 374.54 | 374.44 | 374.81 | 374.89 | 374.83 | 374.66 | 374.63 | 375.18 | 374.99 | 374.88 | 374.64 | 375.16 | 374.79 | 372.92 | 374.66 | 372.56 | 374.08 | 373.31 | 373.58 | 373.67 | 370.63 | |
| GS-AP-MW-6S | Downgradient | Pottsville Fm - Gillespy Transition | 258.20 | | 258.17 | 258.77 | 258.70 | 257.64 | 257.36 | 257.36 | 257.70 | 256.76 | 256.75 | 256.70 | 256.98 | 256.84 | 256.77 | 257.27 | 257.81 | 258.31 | 258.14 | 258.29 | 257.65 | 257.16 | 257.26 | |
| GS-AP-MW-6D | Downgradient | Pottsville Fm - Gillespy Transition | 264.17 | | 263.80 | 264.52 | 264.45 | 263.52 | 263.34 | 263.02 | 263.30 | 262.01 | 262.11 | 261.95 | 263.06 | 262.62 | 262.89 | 263.13 | 263.58 | 263.88 | 263.40 | 263.64 | 263.56 | 262.79 | 263.21 | |
| GS-AP-MW-7 | Downgradient | Pottsville Fm - Gillespy Transition | 305.49 | | 305.50 | 305.64 | 305.73 | 305.48 | 305.31 | 305.29 | 305.35 | 304.76 | 304.73 | 304.58 | 304.81 | 303.63 | 303.43 | 303.92 | 303.69 | 304.17 | 304.25 | 303.58 | 303.54 | 303.69 | 303.06 | |
| GS-AP-MW-12 | Downgradient | Pottsville Fm - Pratt Strata | 380.90 | 380.78 | 380.70 | 380.76 | 380.92 | 380.82 | 380.74 | 380.76 | 380.72 | 380.91 | 380.85 | 380.84 | 380.81 | 380.86 | 380.30 | 378.16 | 380.13 | 378.74 | 380.21 | 379.78 | 380.22 | 379.83 | 376.59 | |
| GS-AP-MW-15 | Downgradient | Pottsville Fm - Pratt Strata | 373.32 | | 373.24 | 373.10 | 373.46 | 373.86 | 373.84 | 373.57 | 373.54 | 374.57 | 374.55 | 374.40 | 373.88 | 375.36 | 374.58 | 371.79 | 374.68 | 372.02 | 373.78 | 373.40 | 374.13 | 374.18 | 373.34 | |
| GS-AP-MW-16D | Downgradient | Pottsville Fm - Nickel Plate Strata | 317.69 | | 315.97 | 315.57 | 319.64 | 322.32 | 323.51 | 320.23 | 320.44 | 326.22 | 324.57 | 324.98 | 318.72 | 330.01 | 325.17 | 316.03 | 329.36 | 316.17 | 323.09 | 316.11 | 316.97 | 324.05 | 308.37 | |
| GS-AP-MW-17 | Downgradient | Pottsville Fm - Pratt Strata | 349.78 | | | 349.44 | 354.10 | 355.00 | 354.18 | | 351.56 | 358.80 | 357.07 | 355.09 | 277.68 | 358.92 | 360.49 | 349.34 | 359.09 | 350.15 | 359.58 | 352.62 | 354.23 | 361.30 | 350.35 | |
| GS-AP-MW-19 | Downgradient | Pottsville Fm - Pratt Strata | | | | | | | | | | 383.40 | 383.50 | 383.52 | 383.72 | 384.44 | 384.09 | 382.96 | 383.82 | 382.54 | 384.03 | 384.22 | 384.71 | 382.54 | 381.08 | |
| GS-AP-MW-21 | Downgradient | Pottsville Fm - Pratt Strata | | 345.05 | | | | | | | | 349.73 | 349.98 | 350.33 | 346.15 | 352.67 | 349.05 | 343.85 | 352.02 | 344.25 | 347.94 | 344.56 | 344.31 | 346.63 | 335.17 | |
| GS-AP-MW-9V | Downgradient | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | 368.30 | 365.63 | 367.46 | 366.86 | 366.98 | 366.19 | 363.58 | |
| GS-AP-MW-12V | Downgradient | Pottsville Fm - American Strata | | | | | | | | | | | | | | 392.70 | | 389.97 | 392.16 | 390.41 | 391.84 | 391.56 | 391.83 | 391.64 | 389.09 | |
| GS-AP-MW-15V | Downgradient | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | 314.63 | 301.24 | 309.63 | 300.36 | 301.57 | 308.68 | 285.35 | |

Notes:

- (1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
- (2) NM = Not Measured



Appendix B. Historical Groundwater Elevations Summary

Plant Gorgas Ash Pond
08/01/2016 - 07/18/2022

| Well | Hydraulic Location | Geologic Unit | Measure Date | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|------------------------|-------------------------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--------|--------|--------|--------|
| | | | 08/01/16 | 09/19/16 | 10/24/16 | 12/12/16 | 02/06/17 | 03/27/17 | 04/24/17 | 06/05/17 | 08/21/17 | 02/19/18 | 04/02/18 | 05/14/18 | 10/15/18 | 03/13/19 | 04/15/19 | 09/23/19 | 03/16/20 | 09/14/20 | 02/01/21 | 06/09/21 | 07/26/21 | 02/07/22 | 07/18/22 | | | | | |
| GS-AP-MW-21V | Downgradient | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | 334.94 | 339.54 | 335.16 | 334.36 | 337.62 | 324.13 | | | | | |
| GS-AP-MW-23V | Vertical Delineation | Pottsville Fm - Gillespy Transition | | | | | | | | | | | | | | | | | | | | | | 262.68 | 262.94 | | | | | |
| GS-AP-MW-31V | Vertical Delineation | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | 315.78 | 300.19 | | | | | |
| GS-AP-MW-36V | Vertical Delineation | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | 293.92 | 264.68 | | | | | |
| GS-AP-PZ-18R | Vertical Delineation | Pottsville Fm - Nickel Plate Strata | | | | | | | | | | | | | | | | | | | | | | 367.23 | 367.20 | | | | | |
| GS-AP-MW-6V | Vertical Delineation | Pottsville Fm - Gillespy Transition | | | | | | | | | | | | | | | | | | 264.51 | 262.18 | 262.03 | 262.12 | 261.88 | 261.48 | | | | | |
| GS-AP-PZ-16 | Vertical Delineation | Pottsville Fm - American Strata | | | 274.83 | | | | | | 281.58 | | 294.14 | 288.58 | 288.38 | 278.22 | | | 276.24 | 295.03 | 276.65 | 291.64 | 273.98 | 277.41 | 292.09 | 252.45 | | | | |
| GS-AP-PZ-22 | Vertical Delineation | Pottsville Fm - American Strata | | | | | | | | | | | 294.14 | 288.52 | 288.29 | 278.18 | | | 276.21 | 295.02 | 276.58 | 291.50 | 273.92 | 277.43 | 291.96 | 252.42 | | | | |
| GS-AP-MW-27HR | Horizontal Delineation | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | 373.22 | 374.23 | 373.11 | | | | | |
| GS-AP-MW-37HR | Horizontal Delineation | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | 361.53 | 318.99 | 315.85 | | | | | |
| GS-AP-MW-23H | Horizontal Delineation | Pottsville Fm - Gillespy Transition | | | | | | | | | | | | | | | | 276.82 | | 275.77 | 277.13 | 276.74 | 277.08 | 276.74 | 277.06 | 277.28 | 276.29 | | | |
| GS-AP-MW-24H | Horizontal Delineation | Pottsville Fm - Gillespy Transition | | | | | | | | | | | | | | | | | 255.11 | | 254.99 | 255.53 | 255.04 | 255.25 | 255.05 | 255.21 | 255.14 | 255.11 | | |
| GS-AP-MW-26H | Horizontal Delineation | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | 299.13 | | 297.55 | 299.07 | 297.98 | 298.98 | 299.00 | 299.34 | 299.19 | 298.02 | | |
| GS-AP-MW-28H | Horizontal Delineation | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | 359.02 | | 349.40 | 360.20 | 350.26 | 359.97 | 357.78 | 354.34 | 361.41 | 350.17 | |
| GS-AP-MW-29H | Horizontal Delineation | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | 350.64 | 361.32 | 351.19 | 360.64 | 353.45 | 354.99 | 362.03 | 361.39 | | |
| GS-AP-MW-25HA | Horizontal Delineation | Pottsville Fm - Gillespy Transition | | | | | | | | | | | | | | | | | | | | | 285.88 | 286.74 | 287.89 | 287.36 | 286.61 | 286.31 | | |
| GS-AP-MW-30HA | Horizontal Delineation | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | 295.09 | 276.84 | 291.89 | 274.08 | 277.52 | 292.21 | 252.32 | | |
| GS-AP-MW-31H | Horizontal Delineation | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | 355.18 | 351.86 | 352.97 | 352.56 | 352.30 | 352.32 | 350.18 | | |
| GS-AP-MW-32H | Horizontal Delineation | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | 309.74 | 293.82 | 302.28 | 292.82 | 292.48 | 300.21 | 277.84 | |
| GS-AP-MW-33HO | Horizontal Delineation | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | 303.00 | 287.38 | 296.87 | 285.47 | 286.69 | 294.16 | 271.89 | |
| GS-AP-MW-34HO | Horizontal Delineation | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | 294.92 | 288.81 | 291.46 | 281.61 | 277.34 | 291.88 | 252.45 | |
| GS-AP-MW-35HO | Horizontal Delineation | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | 311.18 | 295.81 | 302.71 | 298.14 | 295.39 | 300.71 | 282.35 | |
| GS-AP-MW-36H | Horizontal Delineation | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | 313.77 | 300.53 | 306.41 | 300.27 | 300.00 | 304.70 | 288.45 | |
| GS-AP-MW-39H | Horizontal Delineation | Pottsville Fm - Unassigned | | | | | | | | | | | | | | | | | | | | | 152.45 | 142.01 | 144.33 | 157.64 | 164.61 | 176.00 | 185.11 | |
| GS-AP-MW-40H | Horizontal Delineation | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | | | 278.12 | 277.29 | 278.02 | 278.33 | 277.20 |
| GS-AP-MW-41HS | Horizontal Delineation | Pottsville Fm - Gillespy Transition | | | | | | | | | | | | | | | | | | | | | 264.27 | 262.29 | 263.20 | 262.31 | 262.34 | 264.22 | 262.82 | |
| GS-AP-MW-38H | Horizontal Delineation | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | 298.28 | 297.55 | 298.39 | 298.49 | 298.77 | 298.71 | 297.66 | |
| GS-AP-MW-41HD | Horizontal Delineation | Pottsville Fm - Gillespy Transition | | | | | | | | | | | | | | | | | | | | | 283.38 | 282.72 | 282.96 | 282.46 | 282.25 | 282.56 | 283.02 | |
| GS-AP-MW-42H | Horizontal Delineation | Pottsville Fm - Gillespy Transition | | | | | | | | | | | | | | | | | | | | | 286.94 | 287.88 | 288.11 | 288.00 | 288.39 | 288.48 | 287.56 | |

Notes:

- (1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
- (2) NM = Not Measured



Appendix B. Historical Groundwater Elevations Summary

Plant Gorgas Ash Pond
08/01/2016 - 07/18/2022

| Well | Hydraulic Location | Geologic Unit | Measure Date | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|------------------------|-------------------------------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--------|--------|--------|
| | | | 08/01/16 | 09/19/16 | 10/24/16 | 12/12/16 | 02/06/17 | 03/27/17 | 04/24/17 | 06/05/17 | 08/21/17 | 02/19/18 | 04/02/18 | 05/14/18 | 10/15/18 | 03/13/19 | 04/15/19 | 09/23/19 | 03/16/20 | 09/14/20 | 02/01/21 | 06/09/21 | 07/26/21 | 02/07/22 | 07/18/22 | | | | |
| GS-AP-MW-43HO | Horizontal Delineation | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | 366.54 | 364.31 | 365.67 | 365.14 | 365.14 | 365.06 | 362.51 | | | | |
| GS-AP-MW-44HO | Horizontal Delineation | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | 364.14 | 365.48 | 364.70 | 363.18 | 365.05 | 362.30 | | | | |
| GS-AP-MW-4 | Piezometer | Pottsville Fm - Pratt Strata | 371.14 | | 370.61 | 371.22 | 371.89 | 371.95 | 371.79 | 371.68 | 371.70 | 372.80 | 372.49 | 372.08 | 371.39 | 372.97 | 372.86 | 369.36 | 372.65 | 370.44 | 370.95 | 371.57 | 371.64 | 372.01 | 370.01 | | | | |
| GS-AP-MW-16S | Piezometer | Pottsville Fm - Shallow Water Table | 404.77 | | 403.78 | 403.64 | 403.68 | 404.37 | 404.63 | 404.32 | 403.98 | 403.27 | 403.66 | 404.03 | 402.97 | | | 403.02 | 404.20 | 403.36 | 407.07 | 405.94 | 406.03 | 406.04 | 403.61 | | | | |
| GS-AP-MW-20 | Piezometer | Pottsville Fm - Pratt Strata | | 319.60 | | | | | | | | | | | | 328.52 | 328.12 | 329.38 | 326.44 | 335.64 | 329.33 | 329.45 | 331.81 | 320.81 | 325.90 | 320.61 | 320.43 | 321.03 | 308.77 |
| GS-AP-MW-7VR | Piezometer | Pottsville Fm - Gillespy Transition | | | | | | | | | | | | | | | | | | | | 233.28 | 264.39 | 264.37 | 264.51 | 264.13 | 263.65 | | |
| GS-AP-MW-7V | Piezometer | Pottsville Fm - Gillespy Transition | | | | | | | | | | | | | | | | 129.68 | | 138.68 | 144.22 | 121.83 | 117.24 | 120.97 | 122.43 | 128.22 | 132.98 | | |
| GS-AP-MW-25H | Piezometer | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | 301.10 | | 302.31 | 301.11 | 300.39 | 301.87 | 301.47 | 302.15 | 301.37 | 300.63 | | |
| GS-AP-MW-30H | Piezometer | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | 311.02 | 313.15 | 307.96 | 309.19 | 308.66 | 308.31 | 315.17 | 309.87 | | |
| GS-AP-MW-30HS | Piezometer | Pottsville Fm - Shallow Water Table | | | | | | | | | | | | | | | | | | | | Dry | 534.83 | 534.95 | 534.84 | 534.75 | 534.77 | | |
| GS-AP-MW-1 | Abandoned | Pottsville Fm - Pratt Strata | 382.95 | | 382.91 | 382.93 | 382.92 | 382.94 | 382.93 | 382.87 | 382.90 | 382.93 | Dry | 382.89 | 382.88 | 385.41 | 382.90 | 383.18 | 382.94 | 382.88 | 382.92 | 382.88 | 382.93 | | | | | | |
| GS-AP-MW-5 | Abandoned | Pottsville Fm - Pratt Strata | 368.33 | | 367.42 | 367.13 | 367.75 | 367.67 | 367.91 | 367.23 | 367.25 | 368.42 | 368.07 | 368.09 | 367.27 | 369.39 | 369.01 | NM | | | | | | | | | | | |
| GS-AP-MW-9 | Abandoned | Pottsville Fm - Pratt Strata | 369.95 | | 373.89 | 374.89 | 375.28 | 374.81 | 375.02 | 374.67 | 374.81 | 375.43 | 375.70 | 375.58 | 375.47 | 375.94 | 375.28 | NM | | | | | | | | | | | |
| GS-AP-MW-10 | Abandoned | Pottsville Fm - Unassigned | 333.86 | 338.12 | 340.33 | 342.14 | 343.26 | 343.99 | 344.09 | 343.47 | 343.78 | 343.71 | 344.09 | 344.10 | 343.35 | | 344.05 | NM | | | | | | | | | | | |
| GS-AP-MW-11 | Abandoned | Pottsville Fm - Pratt Strata | 382.10 | 381.78 | 381.62 | 381.76 | 381.92 | 381.89 | 381.79 | 381.81 | 381.73 | 382.14 | 382.13 | 382.20 | 382.13 | 382.54 | 381.68 | NM | | | | | | | | | | | |
| GS-AP-MW-13 | Abandoned | Pottsville Fm - Pratt Strata | 394.33 | 393.71 | 393.37 | 393.00 | 392.75 | 392.67 | 392.74 | 392.69 | 392.78 | 392.39 | 392.79 | 393.22 | 392.99 | 395.09 | 395.73 | NM | | | | | | | | | | | |
| GS-AP-MW-14 | Abandoned | Pottsville Fm - Pratt Strata | 371.50 | 371.26 | 371.31 | 371.30 | 371.55 | 371.57 | 371.62 | 371.54 | 371.46 | 372.11 | 372.11 | 371.88 | 371.77 | 372.46 | 371.98 | NM | | | | | | | | | | | |
| GS-AP-MW-18 | Abandoned | Pottsville Fm - Pratt Strata | | 349.37 | | | | | | | | | | | | | | | | | | | | | | | | | |
| GS-AP-PZ-18 | Abandoned | Pottsville Fm - American Strata | | 276.36 | | | | | | | | | | | | | | | | | | | | | | | | | |
| GS-AP-MW-18V | Abandoned | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GS-AP-MW-27H | Abandoned | Pottsville Fm - American Strata | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GS-AP-MW-37H | Abandoned | Pottsville Fm - Pratt Strata | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Notes:

- (1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
- (2) NM = Not Measured

Appendix C



Gorgas Ash Pond

2022 Compliance Event 1

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Turbidity levels less than 10 NTU were not able to be achieved after extended pumping for well MW-7. A complete sample set for totals analysis was collected followed by a field filtered set for dissolved analysis.

Due to low yield, well MW-32H was sampled using the Minimal Purge Method, as defined in the SAP.

Four of the first few pH field readings for well MW-12 were qualified due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Dusty conditions due to high winds and vehicle traffic were present when pumping and sampling wells MW-30HA and MW-34HO.

Suspected iron bacteria was present during initial pumping of well MW-41HS.

Rainy conditions were present when pumping and sampling wells MW-43H, PZ-18R, MW-36V, MW-45V, MW-9V, MW-31V and MW-01R.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verifications for all required field parameters were performed daily, before and after sample collection.

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6V | Conductivity | 2/9/2022 8:41 | 1431.76 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 8:41 | 0.3 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 8:41 | 23.01 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 8:41 | -159.2 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 8:41 | 8.32 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 8:41 | 20.33 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 8:41 | 2 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 8:46 | 1448.35 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 8:46 | 0.24 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 8:46 | 24.91 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 8:46 | -172.6 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 8:46 | 8.41 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 8:46 | 20.36 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 8:46 | 2.21 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 8:51 | 1463.48 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 8:51 | 0.15 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 8:51 | 28.26 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 8:51 | -180.71 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 8:51 | 8.45 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 8:51 | 20.5 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 8:51 | 2.29 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 8:56 | 1459.15 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 8:56 | 0.15 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 8:56 | 31.67 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 8:56 | -184.94 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 8:56 | 8.48 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 8:56 | 20.63 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 8:56 | 2.47 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:01 | 1453.88 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:01 | 0.15 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:01 | 35.4 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 9:01 | -187.2 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:01 | 8.5 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:01 | 20.64 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:01 | 2.44 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:06 | 1446.88 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:06 | 0.15 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:06 | 37.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 9:06 | -188.26 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:06 | 8.51 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:06 | 20.65 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:06 | 3.22 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:11 | 1446.04 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:11 | 0.15 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:11 | 40.04 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 9:11 | -187.56 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:11 | 8.49 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:11 | 20.7 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:11 | 6.66 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:16 | 1442.32 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:16 | 0.14 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:16 | 43.04 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 9:16 | -187.15 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:16 | 8.48 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:16 | 20.68 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:16 | 3.25 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:21 | 1441.88 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:21 | 0.13 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:21 | 47.09 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 9:21 | -189.18 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:21 | 8.5 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:21 | 20.67 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:21 | 3.33 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:26 | 1440.72 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:26 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:26 | 50.69 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 9:26 | -189.15 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:26 | 8.51 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:26 | 20.7 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:26 | 2.97 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:31 | 1438.74 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:31 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:31 | 53.55 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 9:31 | -188.28 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:31 | 8.51 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:31 | 20.68 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:31 | 3.18 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:36 | 1439.74 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:36 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:36 | 56.96 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 9:36 | -187 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:36 | 8.5 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:36 | 20.69 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:36 | 3.13 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:41 | 1437.62 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:41 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:41 | 60.21 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 9:41 | -183.98 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:41 | 8.48 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:41 | 20.68 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:41 | 7.38 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:46 | 1437.54 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:46 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:46 | 63.39 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 9:46 | -183.55 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:46 | 8.49 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:46 | 20.64 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:46 | 4.68 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:51 | 1437.07 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:51 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:51 | 66.16 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 9:51 | -182.76 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:51 | 8.5 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:51 | 20.69 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:51 | 6.63 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 9:56 | 1437.8 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 9:56 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 9:56 | 69.34 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 9:56 | -182.46 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 9:56 | 8.51 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 9:56 | 20.68 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 9:56 | 2.39 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:01 | 1438.13 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:01 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:01 | 72.21 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 10:01 | -181.05 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6V | pH | 2/9/2022 10:01 | 8.5 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:01 | 20.7 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:01 | 5.56 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:06 | 1438.15 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:06 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:06 | 75.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 10:06 | -179.31 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:06 | 8.48 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:06 | 20.69 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:06 | 5.83 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:11 | 1442.94 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:11 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:11 | 78.41 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 10:11 | -178.34 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:11 | 8.48 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:11 | 20.65 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:11 | 8.19 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:16 | 1445.02 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:16 | 0.13 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:16 | 81.86 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 10:16 | -177.2 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:16 | 8.49 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:16 | 20.7 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:16 | 2.88 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:21 | 1423.03 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:21 | 0.46 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:21 | 81.91 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 10:21 | -166.88 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:21 | 8.5 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:21 | 20.64 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:21 | 2.62 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:26 | 1413.9 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:26 | 0.61 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:26 | 81.93 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 10:26 | -159.08 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:26 | 8.58 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:26 | 20.79 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:26 | 2.55 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:31 | 1395.86 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:31 | 0.64 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:31 | 81.9 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 10:31 | -158.32 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:31 | 8.73 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:31 | 20.85 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:31 | 4.24 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:36 | 1384.66 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:36 | 0.65 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:36 | 81.87 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 10:36 | -155.29 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:36 | 8.79 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:36 | 20.92 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:36 | 3.64 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:41 | 1368.07 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:41 | 0.64 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:41 | 81.82 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 10:41 | -151.68 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:41 | 8.8 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:41 | 21.03 | C |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:41 | 5.81 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:46 | 1416.56 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:46 | 0.63 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:46 | 81.75 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 10:46 | -148.59 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:46 | 8.8 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:46 | 21.06 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:46 | 6.23 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:51 | 1412.02 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:51 | 0.63 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:51 | 81.68 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 10:51 | -147 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:51 | 8.81 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:51 | 21.17 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:51 | 7.19 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 10:56 | 1401.35 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 10:56 | 0.63 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 10:56 | 81.61 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 10:56 | -144.97 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 10:56 | 8.81 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 10:56 | 21.19 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 10:56 | 9.72 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:01 | 1403.97 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:01 | 0.65 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:01 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 11:01 | -143.69 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:01 | 8.81 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:01 | 21.24 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:01 | 8.3 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:06 | 1403.47 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:06 | 0.62 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:06 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 11:06 | -142.49 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:06 | 8.81 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:06 | 21.31 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:06 | 8.8 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:11 | 1423.71 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:11 | 0.61 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:11 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 11:11 | -141.56 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:11 | 8.81 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:11 | 21.33 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:11 | 9.02 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:16 | 1418.65 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:16 | 0.65 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:16 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 11:16 | -140.38 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:16 | 8.8 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:16 | 21.31 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:16 | 8.28 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:21 | 1408.18 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:21 | 0.65 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:21 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potential | 2/9/2022 11:21 | -140.05 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:21 | 8.8 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:21 | 21.35 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:21 | 8.7 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:26 | 1399.53 | uS/cm |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6V | DO | 2/9/2022 11:26 | 0.66 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:26 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 11:26 | -139.4 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:26 | 8.81 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:26 | 21.38 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:26 | 10.74 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:31 | 1391.95 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:31 | 0.69 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:31 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 11:31 | -138.3 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:31 | 8.8 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:31 | 21.36 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:31 | 9.36 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:36 | 1407.5 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:36 | 0.68 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:36 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 11:36 | -137.58 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:36 | 8.8 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:36 | 21.24 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:36 | 9.54 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:41 | 1406.94 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:41 | 0.68 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:41 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 11:41 | -137.61 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:41 | 8.8 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:41 | 21.32 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:41 | 9.68 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:46 | 1420.23 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:46 | 0.69 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:46 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 11:46 | -137.25 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:46 | 8.81 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:46 | 21.46 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:46 | 10.52 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:51 | 1411.03 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:51 | 0.73 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:51 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 11:51 | -137.05 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:51 | 8.81 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:51 | 21.49 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:51 | 10.92 | NTU |
| GS-AP-MW-6V | Conductivity | 2/9/2022 11:56 | 1404.56 | uS/cm |
| GS-AP-MW-6V | DO | 2/9/2022 11:56 | 0.71 | mg/L |
| GS-AP-MW-6V | Depth to Water Detail | 2/9/2022 11:56 | 81.59 | ft |
| GS-AP-MW-6V | Oxidation Reduction Potention | 2/9/2022 11:56 | -136.46 | mv |
| GS-AP-MW-6V | pH | 2/9/2022 11:56 | 8.8 | SU |
| GS-AP-MW-6V | Temperature | 2/9/2022 11:56 | 21.5 | C |
| GS-AP-MW-6V | Turbidity | 2/9/2022 11:56 | 9.35 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | Conductivity | 2/8/2022 9:23 | 527.95 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 9:23 | 0.53 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 9:23 | 10.29 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 9:23 | -118.91 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 9:23 | 7.3 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 9:23 | 18.04 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 9:23 | 4.12 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 9:28 | 527.16 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 9:28 | 0.43 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 9:28 | 10.34 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 9:28 | -123.21 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 9:28 | 7.32 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 9:28 | 18.37 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 9:28 | 8.54 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 9:33 | 526.36 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 9:33 | 0.39 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 9:33 | 10.36 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 9:33 | -125.81 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 9:33 | 7.35 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 9:33 | 18.47 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 9:33 | 11.7 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 9:38 | 526.5 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 9:38 | 0.36 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 9:38 | 10.41 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 9:38 | -127.91 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 9:38 | 7.37 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 9:38 | 18.47 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 9:38 | 13.5 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 9:43 | 526.22 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 9:43 | 0.35 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 9:43 | 10.42 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 9:43 | -128.75 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 9:43 | 7.4 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 9:43 | 18.41 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 9:43 | 15.9 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 9:48 | 526.42 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 9:48 | 0.35 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 9:48 | 10.46 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 9:48 | -130.03 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 9:48 | 7.42 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 9:48 | 18.48 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 9:48 | 14.7 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 9:53 | 525.71 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 9:53 | 0.35 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 9:53 | 10.49 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 9:53 | -131.13 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 9:53 | 7.45 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 9:53 | 18.47 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 9:53 | 15.9 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 9:58 | 525.53 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 9:58 | 0.35 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 9:58 | 10.51 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 9:58 | -132.34 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 9:58 | 7.47 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 9:58 | 18.62 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 9:58 | 20.1 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:03 | 525.35 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:03 | 0.35 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:03 | 10.51 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:03 | -133.75 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:03 | 7.5 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:03 | 18.66 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:03 | 17.3 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:08 | 525.2 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:08 | 0.35 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:08 | 10.52 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:08 | -135 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:08 | 7.53 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:08 | 18.68 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:08 | 22.7 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:13 | 525.73 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:13 | 0.36 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:13 | 10.54 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:13 | -135.91 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:13 | 7.56 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:13 | 18.68 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:13 | 16 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:18 | 524.94 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:18 | 0.36 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:18 | 10.56 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:18 | -137.16 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:18 | 7.58 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:18 | 18.8 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:18 | 24 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:23 | 524.72 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:23 | 0.36 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:23 | 10.59 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:23 | -138.09 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:23 | 7.6 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:23 | 18.89 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:23 | 19.8 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:28 | 524.59 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:28 | 0.36 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:28 | 10.59 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:28 | -139.3 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:28 | 7.62 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:28 | 18.87 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:28 | 16.2 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:33 | 524.36 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:33 | 0.36 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:33 | 10.61 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:33 | -140.05 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:33 | 7.64 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:33 | 18.85 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:33 | 18.9 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:38 | 524.31 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:38 | 0.37 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:38 | 10.64 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:38 | -139.98 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:38 | 7.65 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:38 | 18.78 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:38 | 20.3 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:43 | 524.51 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:43 | 0.37 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:43 | 10.64 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:43 | -140.47 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | pH | 2/8/2022 10:43 | 7.66 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:43 | 18.83 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:43 | 19.7 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:48 | 523.65 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:48 | 0.36 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:48 | 10.65 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:48 | -140.97 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:48 | 7.66 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:48 | 18.85 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:48 | 19.6 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:53 | 523.55 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:53 | 0.37 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:53 | 10.66 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:53 | -142.1 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:53 | 7.68 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:53 | 18.84 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:53 | 20.1 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 10:58 | 523.16 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 10:58 | 0.37 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 10:58 | 10.66 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 10:58 | -142.23 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 10:58 | 7.68 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 10:58 | 18.8 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 10:58 | 18 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 11:03 | 523.7 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 11:03 | 0.37 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 11:03 | 10.69 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 11:03 | -141.82 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 11:03 | 7.67 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 11:03 | 18.86 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 11:03 | 18.2 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 11:08 | 523.11 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 11:08 | 0.36 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 11:08 | 10.71 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 11:08 | -143.27 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 11:08 | 7.7 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 11:08 | 18.91 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 11:08 | 18.2 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 11:13 | 522.59 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 11:13 | 0.37 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 11:13 | 10.73 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 11:13 | -143.16 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 11:13 | 7.7 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 11:13 | 18.9 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 11:13 | 17.8 | NTU |
| GS-AP-MW-7 | Conductivity | 2/8/2022 11:18 | 522.4 | uS/cm |
| GS-AP-MW-7 | DO | 2/8/2022 11:18 | 0.37 | mg/L |
| GS-AP-MW-7 | Depth to Water Detail | 2/8/2022 11:18 | 10.73 | ft |
| GS-AP-MW-7 | Oxidation Reduction Potential | 2/8/2022 11:18 | -143.55 | mv |
| GS-AP-MW-7 | pH | 2/8/2022 11:18 | 7.71 | SU |
| GS-AP-MW-7 | Temperature | 2/8/2022 11:18 | 18.93 | C |
| GS-AP-MW-7 | Turbidity | 2/8/2022 11:18 | 18.9 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-41HS | Conductivity | 2/8/2022 12:59 | 439.45 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 12:59 | 1.34 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 12:59 | 21.81 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 12:59 | -0.22 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 12:59 | 6.65 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 12:59 | 19.44 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 12:59 | 66.7 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:04 | 442.34 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:04 | 2.45 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:04 | 22.16 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:04 | 1.22 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:04 | 6.69 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:04 | 19.31 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:04 | 11.49 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:09 | 436.1 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:09 | 2.36 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:09 | 22.56 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:09 | 0.02 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:09 | 6.69 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:09 | 19.4 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:09 | 6.88 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:14 | 435.42 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:14 | 2.29 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:14 | 22.82 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:14 | -0.04 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:14 | 6.69 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:14 | 19.41 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:14 | 5.64 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:19 | 434.2 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:19 | 2.21 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:19 | 23.16 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:19 | -0.35 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:19 | 6.69 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:19 | 19.52 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:19 | 4.41 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:24 | 433.18 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:24 | 2.03 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:24 | 23.5 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:24 | 0 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:24 | 6.67 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:24 | 19.43 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:24 | 3.18 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:29 | 432.28 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:29 | 1.96 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:29 | 23.76 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:29 | -0.54 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:29 | 6.67 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:29 | 19.44 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:29 | 2.32 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:34 | 430.58 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:34 | 2.08 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:34 | 24.21 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:34 | -1.25 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:34 | 6.68 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:34 | 19.36 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:34 | 1.53 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:39 | 429.68 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:39 | 2.15 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:39 | 24.42 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:39 | -2.5 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:39 | 6.69 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:39 | 19.3 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:39 | 1.48 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:44 | 429.36 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:44 | 2.2 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:44 | 24.74 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:44 | -3.28 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:44 | 6.69 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:44 | 19.38 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:44 | 1.25 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:49 | 429.1 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:49 | 2.21 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:49 | 25.11 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:49 | -4.17 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:49 | 6.69 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:49 | 19.38 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:49 | 1.4 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:54 | 428.66 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:54 | 2.26 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:54 | 25.44 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:54 | -3.41 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:54 | 6.67 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:54 | 19.36 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:54 | 0.83 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 13:59 | 428.19 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 13:59 | 2.25 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 13:59 | 25.71 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 13:59 | -4.29 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 13:59 | 6.67 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 13:59 | 19.31 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 13:59 | 0.99 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 14:04 | 428.85 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 14:04 | 2.12 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 14:04 | 25.92 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 14:04 | -5.51 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 14:04 | 6.68 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 14:04 | 19.35 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 14:04 | 0.72 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 14:09 | 427.8 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 14:09 | 2.2 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 14:09 | 26.19 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 14:09 | -4.93 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 14:09 | 6.69 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 14:09 | 19.11 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 14:09 | 0.7 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 14:14 | 428.99 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 14:14 | 2.38 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 14:14 | 26.36 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 14:14 | -3.56 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 14:14 | 6.68 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 14:14 | 19.03 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 14:14 | 0.8 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 14:19 | 429.76 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 14:19 | 2.52 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 14:19 | 26.52 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potential | 2/8/2022 14:19 | -3.1 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-41HS | pH | 2/8/2022 14:19 | 6.68 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 14:19 | 18.96 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 14:19 | 0.84 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 14:24 | 430.32 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 14:24 | 2.49 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 14:24 | 26.76 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potention | 2/8/2022 14:24 | -3.17 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 14:24 | 6.68 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 14:24 | 18.99 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 14:24 | 0.78 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 14:29 | 430.32 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 14:29 | 2.43 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 14:29 | 27.06 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potention | 2/8/2022 14:29 | -3.37 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 14:29 | 6.69 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 14:29 | 19.07 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 14:29 | 0.96 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 14:34 | 429.72 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 14:34 | 2.39 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 14:34 | 27.16 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potention | 2/8/2022 14:34 | -2.58 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 14:34 | 6.68 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 14:34 | 18.91 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 14:34 | 0.77 | NTU |
| GS-AP-MW-41HS | Conductivity | 2/8/2022 14:39 | 429.61 | uS/cm |
| GS-AP-MW-41HS | DO | 2/8/2022 14:39 | 2.25 | mg/L |
| GS-AP-MW-41HS | Depth to Water Detail | 2/8/2022 14:39 | 27.34 | ft |
| GS-AP-MW-41HS | Oxidation Reduction Potention | 2/8/2022 14:39 | -2.04 | mv |
| GS-AP-MW-41HS | pH | 2/8/2022 14:39 | 6.66 | SU |
| GS-AP-MW-41HS | Temperature | 2/8/2022 14:39 | 18.84 | C |
| GS-AP-MW-41HS | Turbidity | 2/8/2022 14:39 | 1.3 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21 | Conductivity | 2/8/2022 10:28 | 1175.8 | uS/cm |
| GS-AP-MW-21 | DO | 2/8/2022 10:28 | 1.52 | mg/L |
| GS-AP-MW-21 | Depth to Water Detail | 2/8/2022 10:28 | 164.02 | ft |
| GS-AP-MW-21 | Oxidation Reduction Potention | 2/8/2022 10:28 | -108.7 | mv |
| GS-AP-MW-21 | pH | 2/8/2022 10:28 | 10.33 | SU |
| GS-AP-MW-21 | Temperature | 2/8/2022 10:28 | 16.2 | C |
| GS-AP-MW-21 | Turbidity | 2/8/2022 10:28 | 1.66 | NTU |
| GS-AP-MW-21 | Conductivity | 2/8/2022 10:33 | 1220.76 | uS/cm |
| GS-AP-MW-21 | DO | 2/8/2022 10:33 | 0.71 | mg/L |
| GS-AP-MW-21 | Depth to Water Detail | 2/8/2022 10:33 | 164.3 | ft |
| GS-AP-MW-21 | Oxidation Reduction Potention | 2/8/2022 10:33 | -161.69 | mv |
| GS-AP-MW-21 | pH | 2/8/2022 10:33 | 11.05 | SU |
| GS-AP-MW-21 | Temperature | 2/8/2022 10:33 | 16.35 | C |
| GS-AP-MW-21 | Turbidity | 2/8/2022 10:33 | 0.99 | NTU |
| GS-AP-MW-21 | Conductivity | 2/8/2022 10:38 | 1181.91 | uS/cm |
| GS-AP-MW-21 | DO | 2/8/2022 10:38 | 0.62 | mg/L |
| GS-AP-MW-21 | Depth to Water Detail | 2/8/2022 10:38 | 164.46 | ft |
| GS-AP-MW-21 | Oxidation Reduction Potention | 2/8/2022 10:38 | -184.42 | mv |
| GS-AP-MW-21 | pH | 2/8/2022 10:38 | 11.09 | SU |
| GS-AP-MW-21 | Temperature | 2/8/2022 10:38 | 16.44 | C |
| GS-AP-MW-21 | Turbidity | 2/8/2022 10:38 | 0.93 | NTU |
| GS-AP-MW-21 | Conductivity | 2/8/2022 10:43 | 1118.23 | uS/cm |
| GS-AP-MW-21 | DO | 2/8/2022 10:43 | 0.58 | mg/L |
| GS-AP-MW-21 | Depth to Water Detail | 2/8/2022 10:43 | 164.58 | ft |
| GS-AP-MW-21 | Oxidation Reduction Potention | 2/8/2022 10:43 | -193.02 | mv |
| GS-AP-MW-21 | pH | 2/8/2022 10:43 | 10.83 | SU |
| GS-AP-MW-21 | Temperature | 2/8/2022 10:43 | 16.54 | C |
| GS-AP-MW-21 | Turbidity | 2/8/2022 10:43 | 0.86 | NTU |
| GS-AP-MW-21 | Conductivity | 2/8/2022 10:48 | 1088.15 | uS/cm |
| GS-AP-MW-21 | DO | 2/8/2022 10:48 | 0.58 | mg/L |
| GS-AP-MW-21 | Depth to Water Detail | 2/8/2022 10:48 | 164.59 | ft |
| GS-AP-MW-21 | Oxidation Reduction Potention | 2/8/2022 10:48 | -201.25 | mv |
| GS-AP-MW-21 | pH | 2/8/2022 10:48 | 10.65 | SU |
| GS-AP-MW-21 | Temperature | 2/8/2022 10:48 | 16.68 | C |
| GS-AP-MW-21 | Turbidity | 2/8/2022 10:48 | 0.83 | NTU |
| GS-AP-MW-21 | Conductivity | 2/8/2022 10:53 | 1063.8 | uS/cm |
| GS-AP-MW-21 | DO | 2/8/2022 10:53 | 0.55 | mg/L |
| GS-AP-MW-21 | Depth to Water Detail | 2/8/2022 10:53 | 164.59 | ft |
| GS-AP-MW-21 | Oxidation Reduction Potention | 2/8/2022 10:53 | -205.23 | mv |
| GS-AP-MW-21 | pH | 2/8/2022 10:53 | 10.5 | SU |
| GS-AP-MW-21 | Temperature | 2/8/2022 10:53 | 16.83 | C |
| GS-AP-MW-21 | Turbidity | 2/8/2022 10:53 | 0.8 | NTU |
| GS-AP-MW-21 | Conductivity | 2/8/2022 10:58 | 1050.47 | uS/cm |
| GS-AP-MW-21 | DO | 2/8/2022 10:58 | 0.55 | mg/L |
| GS-AP-MW-21 | Depth to Water Detail | 2/8/2022 10:58 | 164.59 | ft |
| GS-AP-MW-21 | Oxidation Reduction Potention | 2/8/2022 10:58 | -205.38 | mv |
| GS-AP-MW-21 | pH | 2/8/2022 10:58 | 10.35 | SU |
| GS-AP-MW-21 | Temperature | 2/8/2022 10:58 | 16.91 | C |
| GS-AP-MW-21 | Turbidity | 2/8/2022 10:58 | 0.79 | NTU |
| GS-AP-MW-21 | Conductivity | 2/8/2022 11:03 | 1044.34 | uS/cm |
| GS-AP-MW-21 | DO | 2/8/2022 11:03 | 0.62 | mg/L |
| GS-AP-MW-21 | Depth to Water Detail | 2/8/2022 11:03 | 164.59 | ft |
| GS-AP-MW-21 | Oxidation Reduction Potention | 2/8/2022 11:03 | -206.85 | mv |
| GS-AP-MW-21 | pH | 2/8/2022 11:03 | 10.3 | SU |
| GS-AP-MW-21 | Temperature | 2/8/2022 11:03 | 16.71 | C |
| GS-AP-MW-21 | Turbidity | 2/8/2022 11:03 | 0.68 | NTU |
| GS-AP-MW-21 | Conductivity | 2/8/2022 11:08 | 1038.26 | uS/cm |
| GS-AP-MW-21 | DO | 2/8/2022 11:08 | 0.74 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-21 | Depth to Water Detail | 2/8/2022 11:08 | 164.59 | ft |
| GS-AP-MW-21 | Oxidation Reduction Potention | 2/8/2022 11:08 | -206.64 | mv |
| GS-AP-MW-21 | pH | 2/8/2022 11:08 | 10.26 | SU |
| GS-AP-MW-21 | Temperature | 2/8/2022 11:08 | 16.93 | C |
| GS-AP-MW-21 | Turbidity | 2/8/2022 11:08 | 0.78 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21V | Conductivity | 2/8/2022 11:55 | 3789.61 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 11:55 | 0.47 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 11:55 | 176.28 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 11:55 | -132.53 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 11:55 | 7.58 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 11:55 | 17.04 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 11:55 | 6.76 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:00 | 3878.23 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:00 | 0.36 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:00 | 179.05 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 12:00 | -124.03 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:00 | 7.57 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:00 | 17.13 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:00 | 6.3 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:05 | 3872.06 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:05 | 0.32 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:05 | 181.96 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 12:05 | -121.53 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:05 | 7.57 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:05 | 17.18 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:05 | 7.36 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:10 | 3868.12 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:10 | 0.31 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:10 | 183.73 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 12:10 | -121.02 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:10 | 7.57 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:10 | 16.97 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:10 | 7.26 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:15 | 3837.05 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:15 | 0.28 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:15 | 186.22 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 12:15 | -122.28 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:15 | 7.59 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:15 | 17.12 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:15 | 6.55 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:20 | 3788.54 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:20 | 0.27 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:20 | 189.15 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 12:20 | -124.33 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:20 | 7.6 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:20 | 17.17 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:20 | 5.59 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:25 | 3736.75 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:25 | 0.28 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:25 | 191.72 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 12:25 | -126.19 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:25 | 7.62 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:25 | 17.16 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:25 | 6.81 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:30 | 3709.38 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:30 | 0.26 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:30 | 194.11 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 12:30 | -127.75 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:30 | 7.63 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:30 | 17.12 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:30 | 7.56 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:35 | 3608.02 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:35 | 0.26 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:35 | 196.21 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potential | 2/8/2022 12:35 | -129.81 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:35 | 7.65 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:35 | 17.12 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:35 | 6.69 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:40 | 3565.29 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:40 | 0.26 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:40 | 198.96 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potential | 2/8/2022 12:40 | -131.4 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:40 | 7.66 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:40 | 17.09 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:40 | 6.81 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:45 | 3557.33 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:45 | 0.45 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:45 | 199.7 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potential | 2/8/2022 12:45 | -129.08 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:45 | 7.67 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:45 | 16.85 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:45 | 6.04 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:50 | 3407.74 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:50 | 0.46 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:50 | 200.46 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potential | 2/8/2022 12:50 | -129.13 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:50 | 7.71 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:50 | 17.12 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:50 | 5.71 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 12:55 | 3232.45 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 12:55 | 0.53 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 12:55 | 200.94 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potential | 2/8/2022 12:55 | -130.59 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 12:55 | 7.76 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 12:55 | 17.28 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 12:55 | 5.99 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 13:00 | 3104.58 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 13:00 | 0.54 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 13:00 | 201.3 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potential | 2/8/2022 13:00 | -131.62 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 13:00 | 7.8 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 13:00 | 17.06 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 13:00 | 4.59 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 13:05 | 2976.38 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 13:05 | 0.54 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 13:05 | 201.78 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potential | 2/8/2022 13:05 | -133.72 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 13:05 | 7.84 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 13:05 | 16.88 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 13:05 | 5.02 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 13:10 | 2904.04 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 13:10 | 0.54 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 13:10 | 202.18 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potential | 2/8/2022 13:10 | -135.3 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 13:10 | 7.86 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 13:10 | 17.14 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 13:10 | 4.86 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 13:15 | 2820.29 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 13:15 | 0.53 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 13:15 | 202.4 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potential | 2/8/2022 13:15 | -136.9 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21V | pH | 2/8/2022 13:15 | 7.89 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 13:15 | 17.05 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 13:15 | 5.52 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 13:20 | 2762.7 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 13:20 | 0.54 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 13:20 | 202.71 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 13:20 | -138.4 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 13:20 | 7.92 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 13:20 | 17.05 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 13:20 | 4.73 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 13:25 | 2701.29 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 13:25 | 0.55 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 13:25 | 202.89 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 13:25 | -139.15 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 13:25 | 7.94 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 13:25 | 17.03 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 13:25 | 5.12 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 13:30 | 2641.13 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 13:30 | 0.53 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 13:30 | 203.04 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 13:30 | -141.12 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 13:30 | 7.96 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 13:30 | 17.2 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 13:30 | 4.81 | NTU |
| GS-AP-MW-21V | Conductivity | 2/8/2022 13:35 | 2592.81 | uS/cm |
| GS-AP-MW-21V | DO | 2/8/2022 13:35 | 0.52 | mg/L |
| GS-AP-MW-21V | Depth to Water Detail | 2/8/2022 13:35 | 203.14 | ft |
| GS-AP-MW-21V | Oxidation Reduction Potention | 2/8/2022 13:35 | -142.8 | mv |
| GS-AP-MW-21V | pH | 2/8/2022 13:35 | 7.98 | SU |
| GS-AP-MW-21V | Temperature | 2/8/2022 13:35 | 17.18 | C |
| GS-AP-MW-21V | Turbidity | 2/8/2022 13:35 | 4.76 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-30HA | Conductivity | 2/8/2022 8:48 | 868.92 | uS/cm |
| GS-AP-MW-30HA | DO | 2/8/2022 8:48 | 2.54 | mg/L |
| GS-AP-MW-30HA | Depth to Water Detail | 2/8/2022 8:48 | 290.3 | ft |
| GS-AP-MW-30HA | Oxidation Reduction Potential | 2/8/2022 8:48 | 30.68 | mv |
| GS-AP-MW-30HA | pH | 2/8/2022 8:48 | 7.17 | SU |
| GS-AP-MW-30HA | Temperature | 2/8/2022 8:48 | 14.58 | C |
| GS-AP-MW-30HA | Turbidity | 2/8/2022 8:48 | 13.2 | NTU |
| GS-AP-MW-30HA | Conductivity | 2/8/2022 8:53 | 862.35 | uS/cm |
| GS-AP-MW-30HA | DO | 2/8/2022 8:53 | 0.92 | mg/L |
| GS-AP-MW-30HA | Depth to Water Detail | 2/8/2022 8:53 | 290.3 | ft |
| GS-AP-MW-30HA | Oxidation Reduction Potential | 2/8/2022 8:53 | -39.92 | mv |
| GS-AP-MW-30HA | pH | 2/8/2022 8:53 | 7 | SU |
| GS-AP-MW-30HA | Temperature | 2/8/2022 8:53 | 14.62 | C |
| GS-AP-MW-30HA | Turbidity | 2/8/2022 8:53 | 5.13 | NTU |
| GS-AP-MW-30HA | Conductivity | 2/8/2022 8:58 | 830.99 | uS/cm |
| GS-AP-MW-30HA | DO | 2/8/2022 8:58 | 0.65 | mg/L |
| GS-AP-MW-30HA | Depth to Water Detail | 2/8/2022 8:58 | 290.3 | ft |
| GS-AP-MW-30HA | Oxidation Reduction Potential | 2/8/2022 8:58 | -133.85 | mv |
| GS-AP-MW-30HA | pH | 2/8/2022 8:58 | 7.22 | SU |
| GS-AP-MW-30HA | Temperature | 2/8/2022 8:58 | 14.68 | C |
| GS-AP-MW-30HA | Turbidity | 2/8/2022 8:58 | 9.97 | NTU |
| GS-AP-MW-30HA | Conductivity | 2/8/2022 9:03 | 821.57 | uS/cm |
| GS-AP-MW-30HA | DO | 2/8/2022 9:03 | 0.59 | mg/L |
| GS-AP-MW-30HA | Depth to Water Detail | 2/8/2022 9:03 | 290.3 | ft |
| GS-AP-MW-30HA | Oxidation Reduction Potential | 2/8/2022 9:03 | -128.57 | mv |
| GS-AP-MW-30HA | pH | 2/8/2022 9:03 | 7.31 | SU |
| GS-AP-MW-30HA | Temperature | 2/8/2022 9:03 | 14.71 | C |
| GS-AP-MW-30HA | Turbidity | 2/8/2022 9:03 | 19.9 | NTU |
| GS-AP-MW-30HA | Conductivity | 2/8/2022 9:08 | 875.71 | uS/cm |
| GS-AP-MW-30HA | DO | 2/8/2022 9:08 | 0.6 | mg/L |
| GS-AP-MW-30HA | Depth to Water Detail | 2/8/2022 9:08 | 290.3 | ft |
| GS-AP-MW-30HA | Oxidation Reduction Potential | 2/8/2022 9:08 | -119.23 | mv |
| GS-AP-MW-30HA | pH | 2/8/2022 9:08 | 7.32 | SU |
| GS-AP-MW-30HA | Temperature | 2/8/2022 9:08 | 14.8 | C |
| GS-AP-MW-30HA | Turbidity | 2/8/2022 9:08 | 17.2 | NTU |
| GS-AP-MW-30HA | Conductivity | 2/8/2022 9:13 | 908.95 | uS/cm |
| GS-AP-MW-30HA | DO | 2/8/2022 9:13 | 0.55 | mg/L |
| GS-AP-MW-30HA | Depth to Water Detail | 2/8/2022 9:13 | 290.3 | ft |
| GS-AP-MW-30HA | Oxidation Reduction Potential | 2/8/2022 9:13 | -117.16 | mv |
| GS-AP-MW-30HA | pH | 2/8/2022 9:13 | 7.34 | SU |
| GS-AP-MW-30HA | Temperature | 2/8/2022 9:13 | 14.89 | C |
| GS-AP-MW-30HA | Turbidity | 2/8/2022 9:13 | 13.47 | NTU |
| GS-AP-MW-30HA | Conductivity | 2/8/2022 9:18 | 928.55 | uS/cm |
| GS-AP-MW-30HA | DO | 2/8/2022 9:18 | 0.55 | mg/L |
| GS-AP-MW-30HA | Depth to Water Detail | 2/8/2022 9:18 | 290.3 | ft |
| GS-AP-MW-30HA | Oxidation Reduction Potential | 2/8/2022 9:18 | -115.01 | mv |
| GS-AP-MW-30HA | pH | 2/8/2022 9:18 | 7.33 | SU |
| GS-AP-MW-30HA | Temperature | 2/8/2022 9:18 | 14.91 | C |
| GS-AP-MW-30HA | Turbidity | 2/8/2022 9:18 | 11.77 | NTU |
| GS-AP-MW-30HA | Conductivity | 2/8/2022 9:23 | 929.95 | uS/cm |
| GS-AP-MW-30HA | DO | 2/8/2022 9:23 | 0.52 | mg/L |
| GS-AP-MW-30HA | Depth to Water Detail | 2/8/2022 9:23 | 290.3 | ft |
| GS-AP-MW-30HA | Oxidation Reduction Potential | 2/8/2022 9:23 | -114.2 | mv |
| GS-AP-MW-30HA | pH | 2/8/2022 9:23 | 7.35 | SU |
| GS-AP-MW-30HA | Temperature | 2/8/2022 9:23 | 14.91 | C |
| GS-AP-MW-30HA | Turbidity | 2/8/2022 9:23 | 8.31 | NTU |
| GS-AP-MW-30HA | Conductivity | 2/8/2022 9:28 | 940.62 | uS/cm |
| GS-AP-MW-30HA | DO | 2/8/2022 9:28 | 0.49 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-30HA | Depth to Water Detail | 2/8/2022 9:28 | 290.3 | ft |
| GS-AP-MW-30HA | Oxidation Reduction Potention | 2/8/2022 9:28 | -113.58 | mv |
| GS-AP-MW-30HA | pH | 2/8/2022 9:28 | 7.35 | SU |
| GS-AP-MW-30HA | Temperature | 2/8/2022 9:28 | 15.03 | C |
| GS-AP-MW-30HA | Turbidity | 2/8/2022 9:28 | 7.77 | NTU |
| GS-AP-MW-30HA | Conductivity | 2/8/2022 9:33 | 945.82 | uS/cm |
| GS-AP-MW-30HA | DO | 2/8/2022 9:33 | 0.5 | mg/L |
| GS-AP-MW-30HA | Depth to Water Detail | 2/8/2022 9:33 | 290.3 | ft |
| GS-AP-MW-30HA | Oxidation Reduction Potention | 2/8/2022 9:33 | -113.51 | mv |
| GS-AP-MW-30HA | pH | 2/8/2022 9:33 | 7.35 | SU |
| GS-AP-MW-30HA | Temperature | 2/8/2022 9:33 | 14.98 | C |
| GS-AP-MW-30HA | Turbidity | 2/8/2022 9:33 | 4.94 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-31H | Conductivity | 2/8/2022 14:50 | 535.6 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 14:50 | 1.32 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 14:50 | 236.6 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potention | 2/8/2022 14:50 | -106.02 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 14:50 | 7.35 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 14:50 | 17.68 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 14:50 | 2 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 14:55 | 659.04 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 14:55 | 0.74 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 14:55 | 237.03 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potention | 2/8/2022 14:55 | -152.51 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 14:55 | 7.98 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 14:55 | 17.29 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 14:55 | 1.89 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:00 | 700.73 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:00 | 0.63 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:00 | 237.39 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potention | 2/8/2022 15:00 | -165.24 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:00 | 8.13 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:00 | 17.2 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:00 | 2.01 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:05 | 702.57 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:05 | 0.55 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:05 | 237.72 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potention | 2/8/2022 15:05 | -173.81 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:05 | 8.17 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:05 | 16.97 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:05 | 1.82 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:10 | 684.03 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:10 | 0.5 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:10 | 237.92 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potention | 2/8/2022 15:10 | -181.11 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:10 | 8.22 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:10 | 17.19 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:10 | 2.25 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:15 | 657 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:15 | 0.49 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:15 | 238.18 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potention | 2/8/2022 15:15 | -187.33 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:15 | 8.27 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:15 | 16.92 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:15 | 2.83 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:20 | 621.34 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:20 | 0.49 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:20 | 238.37 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potention | 2/8/2022 15:20 | -192.44 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:20 | 8.32 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:20 | 16.84 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:20 | 3.22 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:25 | 600.85 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:25 | 0.47 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:25 | 238.5 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potention | 2/8/2022 15:25 | -196.3 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:25 | 8.35 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:25 | 16.81 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:25 | 2.74 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:30 | 581.99 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:30 | 0.53 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:30 | 238.64 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potential | 2/8/2022 15:30 | -198.33 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:30 | 8.38 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:30 | 16.54 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:30 | 2.61 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:35 | 558.98 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:35 | 0.43 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:35 | 238.78 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potential | 2/8/2022 15:35 | -202.04 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:35 | 8.42 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:35 | 16.61 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:35 | 1.29 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:40 | 539.61 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:40 | 0.43 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:40 | 238.86 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potential | 2/8/2022 15:40 | -204.81 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:40 | 8.45 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:40 | 16.57 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:40 | 1.2 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:45 | 519.01 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:45 | 0.42 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:45 | 238.93 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potential | 2/8/2022 15:45 | -207.17 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:45 | 8.47 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:45 | 16.56 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:45 | 1.02 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:50 | 492.27 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:50 | 0.42 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:50 | 239.08 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potential | 2/8/2022 15:50 | -209.32 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:50 | 8.5 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:50 | 16.6 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:50 | 1.48 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 15:55 | 484.93 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 15:55 | 0.53 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 15:55 | 239.15 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potential | 2/8/2022 15:55 | -208.62 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 15:55 | 8.52 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 15:55 | 16.18 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 15:55 | 1.21 | NTU |
| GS-AP-MW-31H | Conductivity | 2/8/2022 16:00 | 478.43 | uS/cm |
| GS-AP-MW-31H | DO | 2/8/2022 16:00 | 0.6 | mg/L |
| GS-AP-MW-31H | Depth to Water Detail | 2/8/2022 16:00 | 239.22 | ft |
| GS-AP-MW-31H | Oxidation Reduction Potential | 2/8/2022 16:00 | -208.42 | mv |
| GS-AP-MW-31H | pH | 2/8/2022 16:00 | 8.53 | SU |
| GS-AP-MW-31H | Temperature | 2/8/2022 16:00 | 16.02 | C |
| GS-AP-MW-31H | Turbidity | 2/8/2022 16:00 | 1.16 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-28H | Conductivity | 2/14/2022 12:12 | 762.12 | uS/cm |
| GS-AP-MW-28H | DO | 2/14/2022 12:12 | 0.55 | mg/L |
| GS-AP-MW-28H | Depth to Water Detail | 2/14/2022 12:12 | 157.78 | ft |
| GS-AP-MW-28H | Oxidation Reduction Potention | 2/14/2022 12:12 | -169.15 | mv |
| GS-AP-MW-28H | pH | 2/14/2022 12:12 | 7.93 | SU |
| GS-AP-MW-28H | Temperature | 2/14/2022 12:12 | 17.12 | C |
| GS-AP-MW-28H | Turbidity | 2/14/2022 12:12 | 0.79 | NTU |
| GS-AP-MW-28H | Conductivity | 2/14/2022 12:17 | 709.37 | uS/cm |
| GS-AP-MW-28H | DO | 2/14/2022 12:17 | 0.48 | mg/L |
| GS-AP-MW-28H | Depth to Water Detail | 2/14/2022 12:17 | 157.78 | ft |
| GS-AP-MW-28H | Oxidation Reduction Potention | 2/14/2022 12:17 | -174.49 | mv |
| GS-AP-MW-28H | pH | 2/14/2022 12:17 | 8.17 | SU |
| GS-AP-MW-28H | Temperature | 2/14/2022 12:17 | 16.88 | C |
| GS-AP-MW-28H | Turbidity | 2/14/2022 12:17 | 0.67 | NTU |
| GS-AP-MW-28H | Conductivity | 2/14/2022 12:22 | 688.55 | uS/cm |
| GS-AP-MW-28H | DO | 2/14/2022 12:22 | 0.39 | mg/L |
| GS-AP-MW-28H | Depth to Water Detail | 2/14/2022 12:22 | 157.78 | ft |
| GS-AP-MW-28H | Oxidation Reduction Potention | 2/14/2022 12:22 | -180.41 | mv |
| GS-AP-MW-28H | pH | 2/14/2022 12:22 | 8.27 | SU |
| GS-AP-MW-28H | Temperature | 2/14/2022 12:22 | 17.13 | C |
| GS-AP-MW-28H | Turbidity | 2/14/2022 12:22 | 0.7 | NTU |
| GS-AP-MW-28H | Conductivity | 2/14/2022 12:27 | 678.23 | uS/cm |
| GS-AP-MW-28H | DO | 2/14/2022 12:27 | 0.37 | mg/L |
| GS-AP-MW-28H | Depth to Water Detail | 2/14/2022 12:27 | 157.78 | ft |
| GS-AP-MW-28H | Oxidation Reduction Potention | 2/14/2022 12:27 | -183.55 | mv |
| GS-AP-MW-28H | pH | 2/14/2022 12:27 | 8.31 | SU |
| GS-AP-MW-28H | Temperature | 2/14/2022 12:27 | 17.15 | C |
| GS-AP-MW-28H | Turbidity | 2/14/2022 12:27 | 0.76 | NTU |
| GS-AP-MW-28H | Conductivity | 2/14/2022 12:32 | 649.76 | uS/cm |
| GS-AP-MW-28H | DO | 2/14/2022 12:32 | 0.39 | mg/L |
| GS-AP-MW-28H | Depth to Water Detail | 2/14/2022 12:32 | 157.78 | ft |
| GS-AP-MW-28H | Oxidation Reduction Potention | 2/14/2022 12:32 | -183.97 | mv |
| GS-AP-MW-28H | pH | 2/14/2022 12:32 | 8.35 | SU |
| GS-AP-MW-28H | Temperature | 2/14/2022 12:32 | 17.05 | C |
| GS-AP-MW-28H | Turbidity | 2/14/2022 12:32 | 0.64 | NTU |
| GS-AP-MW-28H | Conductivity | 2/14/2022 12:37 | 646.75 | uS/cm |
| GS-AP-MW-28H | DO | 2/14/2022 12:37 | 0.35 | mg/L |
| GS-AP-MW-28H | Depth to Water Detail | 2/14/2022 12:37 | 157.78 | ft |
| GS-AP-MW-28H | Oxidation Reduction Potention | 2/14/2022 12:37 | -187.54 | mv |
| GS-AP-MW-28H | pH | 2/14/2022 12:37 | 8.37 | SU |
| GS-AP-MW-28H | Temperature | 2/14/2022 12:37 | 17.17 | C |
| GS-AP-MW-28H | Turbidity | 2/14/2022 12:37 | 0.64 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-29H | Conductivity | 2/14/2022 13:48 | 730.5 | uS/cm |
| GS-AP-MW-29H | DO | 2/14/2022 13:48 | 0.56 | mg/L |
| GS-AP-MW-29H | Depth to Water Detail | 2/14/2022 13:48 | 86.5 | ft |
| GS-AP-MW-29H | Oxidation Reduction Potention | 2/14/2022 13:48 | -148.19 | mv |
| GS-AP-MW-29H | pH | 2/14/2022 13:48 | 7.62 | SU |
| GS-AP-MW-29H | Temperature | 2/14/2022 13:48 | 16.97 | C |
| GS-AP-MW-29H | Turbidity | 2/14/2022 13:48 | 1.41 | NTU |
| GS-AP-MW-29H | Conductivity | 2/14/2022 13:53 | 674.28 | uS/cm |
| GS-AP-MW-29H | DO | 2/14/2022 13:53 | 0.48 | mg/L |
| GS-AP-MW-29H | Depth to Water Detail | 2/14/2022 13:53 | 87.4 | ft |
| GS-AP-MW-29H | Oxidation Reduction Potention | 2/14/2022 13:53 | -160.38 | mv |
| GS-AP-MW-29H | pH | 2/14/2022 13:53 | 7.63 | SU |
| GS-AP-MW-29H | Temperature | 2/14/2022 13:53 | 16.94 | C |
| GS-AP-MW-29H | Turbidity | 2/14/2022 13:53 | 1.15 | NTU |
| GS-AP-MW-29H | Conductivity | 2/14/2022 13:58 | 636.27 | uS/cm |
| GS-AP-MW-29H | DO | 2/14/2022 13:58 | 0.42 | mg/L |
| GS-AP-MW-29H | Depth to Water Detail | 2/14/2022 13:58 | 87.85 | ft |
| GS-AP-MW-29H | Oxidation Reduction Potention | 2/14/2022 13:58 | -169.74 | mv |
| GS-AP-MW-29H | pH | 2/14/2022 13:58 | 7.67 | SU |
| GS-AP-MW-29H | Temperature | 2/14/2022 13:58 | 16.89 | C |
| GS-AP-MW-29H | Turbidity | 2/14/2022 13:58 | 1.04 | NTU |
| GS-AP-MW-29H | Conductivity | 2/14/2022 14:03 | 598.75 | uS/cm |
| GS-AP-MW-29H | DO | 2/14/2022 14:03 | 0.4 | mg/L |
| GS-AP-MW-29H | Depth to Water Detail | 2/14/2022 14:03 | 88.2 | ft |
| GS-AP-MW-29H | Oxidation Reduction Potention | 2/14/2022 14:03 | -176.52 | mv |
| GS-AP-MW-29H | pH | 2/14/2022 14:03 | 7.7 | SU |
| GS-AP-MW-29H | Temperature | 2/14/2022 14:03 | 16.85 | C |
| GS-AP-MW-29H | Turbidity | 2/14/2022 14:03 | 0.98 | NTU |
| GS-AP-MW-29H | Conductivity | 2/14/2022 14:08 | 586.95 | uS/cm |
| GS-AP-MW-29H | DO | 2/14/2022 14:08 | 0.38 | mg/L |
| GS-AP-MW-29H | Depth to Water Detail | 2/14/2022 14:08 | 88.4 | ft |
| GS-AP-MW-29H | Oxidation Reduction Potention | 2/14/2022 14:08 | -181.32 | mv |
| GS-AP-MW-29H | pH | 2/14/2022 14:08 | 7.72 | SU |
| GS-AP-MW-29H | Temperature | 2/14/2022 14:08 | 16.84 | C |
| GS-AP-MW-29H | Turbidity | 2/14/2022 14:08 | 0.85 | NTU |
| GS-AP-MW-29H | Conductivity | 2/14/2022 14:13 | 563.51 | uS/cm |
| GS-AP-MW-29H | DO | 2/14/2022 14:13 | 0.38 | mg/L |
| GS-AP-MW-29H | Depth to Water Detail | 2/14/2022 14:13 | 88.55 | ft |
| GS-AP-MW-29H | Oxidation Reduction Potention | 2/14/2022 14:13 | -184.66 | mv |
| GS-AP-MW-29H | pH | 2/14/2022 14:13 | 7.74 | SU |
| GS-AP-MW-29H | Temperature | 2/14/2022 14:13 | 16.83 | C |
| GS-AP-MW-29H | Turbidity | 2/14/2022 14:13 | 0.8 | NTU |
| GS-AP-MW-29H | Conductivity | 2/14/2022 14:18 | 605.91 | uS/cm |
| GS-AP-MW-29H | DO | 2/14/2022 14:18 | 0.36 | mg/L |
| GS-AP-MW-29H | Depth to Water Detail | 2/14/2022 14:18 | 88.76 | ft |
| GS-AP-MW-29H | Oxidation Reduction Potention | 2/14/2022 14:18 | -187.35 | mv |
| GS-AP-MW-29H | pH | 2/14/2022 14:18 | 7.75 | SU |
| GS-AP-MW-29H | Temperature | 2/14/2022 14:18 | 16.8 | C |
| GS-AP-MW-29H | Turbidity | 2/14/2022 14:18 | 0.79 | NTU |
| GS-AP-MW-29H | Conductivity | 2/14/2022 14:23 | 599.66 | uS/cm |
| GS-AP-MW-29H | DO | 2/14/2022 14:23 | 0.36 | mg/L |
| GS-AP-MW-29H | Depth to Water Detail | 2/14/2022 14:23 | 88.82 | ft |
| GS-AP-MW-29H | Oxidation Reduction Potention | 2/14/2022 14:23 | -189.48 | mv |
| GS-AP-MW-29H | pH | 2/14/2022 14:23 | 7.77 | SU |
| GS-AP-MW-29H | Temperature | 2/14/2022 14:23 | 16.77 | C |
| GS-AP-MW-29H | Turbidity | 2/14/2022 14:23 | 0.7 | NTU |
| GS-AP-MW-29H | Conductivity | 2/14/2022 14:28 | 595.98 | uS/cm |
| GS-AP-MW-29H | DO | 2/14/2022 14:28 | 0.37 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-29H | Depth to Water Detail | 2/14/2022 14:28 | 88.85 | ft |
| GS-AP-MW-29H | Oxidation Reduction Potention | 2/14/2022 14:28 | -190.56 | mv |
| GS-AP-MW-29H | pH | 2/14/2022 14:28 | 7.77 | SU |
| GS-AP-MW-29H | Temperature | 2/14/2022 14:28 | 16.75 | C |
| GS-AP-MW-29H | Turbidity | 2/14/2022 14:28 | 0.77 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-32H | Conductivity | 2/14/2022 15:21 | 547.49 | uS/cm |
| GS-AP-MW-32H | DO | 2/14/2022 15:21 | 1.32 | mg/L |
| GS-AP-MW-32H | Depth to Water Detail | 2/14/2022 15:21 | 250.22 | ft |
| GS-AP-MW-32H | Oxidation Reduction Potention | 2/14/2022 15:21 | -183.4 | mv |
| GS-AP-MW-32H | pH | 2/14/2022 15:21 | 8.04 | SU |
| GS-AP-MW-32H | Temperature | 2/14/2022 15:21 | 16.47 | C |
| GS-AP-MW-32H | Turbidity | 2/14/2022 15:21 | 1.86 | NTU |
| GS-AP-MW-32H | Conductivity | 2/14/2022 15:42 | 592.54 | uS/cm |
| GS-AP-MW-32H | DO | 2/14/2022 15:42 | 0.96 | mg/L |
| GS-AP-MW-32H | Depth to Water Detail | 2/14/2022 15:42 | 251.95 | ft |
| GS-AP-MW-32H | Oxidation Reduction Potention | 2/14/2022 15:42 | -188.81 | mv |
| GS-AP-MW-32H | pH | 2/14/2022 15:42 | 8.22 | SU |
| GS-AP-MW-32H | Temperature | 2/14/2022 15:42 | 16.24 | C |
| GS-AP-MW-32H | Turbidity | 2/14/2022 15:42 | 1.72 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6S | Conductivity | 2/14/2022 10:19 | 480.6 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 10:19 | 0.14 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 10:19 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potential | 2/14/2022 10:19 | -119.11 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 10:19 | 6.91 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 10:19 | 17.33 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 10:19 | 13.8 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 10:24 | 478.4 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 10:24 | 0.12 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 10:24 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potential | 2/14/2022 10:24 | -116.14 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 10:24 | 6.92 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 10:24 | 17.3 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 10:24 | 9.33 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 10:29 | 476.87 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 10:29 | 0.12 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 10:29 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potential | 2/14/2022 10:29 | -113.29 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 10:29 | 6.91 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 10:29 | 17.21 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 10:29 | 7.78 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 10:34 | 477.09 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 10:34 | 0.18 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 10:34 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potential | 2/14/2022 10:34 | -111.04 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 10:34 | 6.95 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 10:34 | 17.08 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 10:34 | 8.65 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 10:39 | 477.25 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 10:39 | 0.29 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 10:39 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potential | 2/14/2022 10:39 | -105.34 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 10:39 | 6.96 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 10:39 | 17.08 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 10:39 | 7.83 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 10:44 | 477.51 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 10:44 | 0.45 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 10:44 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potential | 2/14/2022 10:44 | -97.85 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 10:44 | 6.97 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 10:44 | 17.13 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 10:44 | 7.72 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 10:49 | 478.52 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 10:49 | 0.68 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 10:49 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potential | 2/14/2022 10:49 | -89.59 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 10:49 | 6.98 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 10:49 | 17.08 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 10:49 | 7.68 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 10:54 | 479.11 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 10:54 | 0.85 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 10:54 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potential | 2/14/2022 10:54 | -81.84 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 10:54 | 6.96 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 10:54 | 17.07 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 10:54 | 7.27 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 10:59 | 479.08 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 10:59 | 0.98 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 10:59 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potention | 2/14/2022 10:59 | -80.09 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 10:59 | 6.95 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 10:59 | 16.96 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 10:59 | 6.23 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 11:04 | 480.16 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 11:04 | 1.15 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 11:04 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potention | 2/14/2022 11:04 | -73.65 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 11:04 | 6.98 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 11:04 | 16.93 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 11:04 | 5.59 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 11:09 | 480.18 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 11:09 | 1.24 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 11:09 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potention | 2/14/2022 11:09 | -70.66 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 11:09 | 6.99 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 11:09 | 16.97 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 11:09 | 5.23 | NTU |
| GS-AP-MW-6S | Conductivity | 2/14/2022 11:14 | 480.16 | uS/cm |
| GS-AP-MW-6S | DO | 2/14/2022 11:14 | 1.33 | mg/L |
| GS-AP-MW-6S | Depth to Water Detail | 2/14/2022 11:14 | 17.66 | ft |
| GS-AP-MW-6S | Oxidation Reduction Potention | 2/14/2022 11:14 | -67.79 | mv |
| GS-AP-MW-6S | pH | 2/14/2022 11:14 | 6.99 | SU |
| GS-AP-MW-6S | Temperature | 2/14/2022 11:14 | 16.98 | C |
| GS-AP-MW-6S | Turbidity | 2/14/2022 11:14 | 4.99 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6D | Conductivity | 2/14/2022 12:15 | 460.41 | uS/cm |
| GS-AP-MW-6D | DO | 2/14/2022 12:15 | 0.16 | mg/L |
| GS-AP-MW-6D | Depth to Water Detail | 2/14/2022 12:15 | 12.22 | ft |
| GS-AP-MW-6D | Oxidation Reduction Potention | 2/14/2022 12:15 | -136.37 | mv |
| GS-AP-MW-6D | pH | 2/14/2022 12:15 | 7.38 | SU |
| GS-AP-MW-6D | Temperature | 2/14/2022 12:15 | 17.73 | C |
| GS-AP-MW-6D | Turbidity | 2/14/2022 12:15 | 1.58 | NTU |
| GS-AP-MW-6D | Conductivity | 2/14/2022 12:20 | 460.45 | uS/cm |
| GS-AP-MW-6D | DO | 2/14/2022 12:20 | 0.15 | mg/L |
| GS-AP-MW-6D | Depth to Water Detail | 2/14/2022 12:20 | 12.34 | ft |
| GS-AP-MW-6D | Oxidation Reduction Potention | 2/14/2022 12:20 | -144.95 | mv |
| GS-AP-MW-6D | pH | 2/14/2022 12:20 | 7.41 | SU |
| GS-AP-MW-6D | Temperature | 2/14/2022 12:20 | 17.69 | C |
| GS-AP-MW-6D | Turbidity | 2/14/2022 12:20 | 1.18 | NTU |
| GS-AP-MW-6D | Conductivity | 2/14/2022 12:25 | 461.57 | uS/cm |
| GS-AP-MW-6D | DO | 2/14/2022 12:25 | 0.15 | mg/L |
| GS-AP-MW-6D | Depth to Water Detail | 2/14/2022 12:25 | 12.34 | ft |
| GS-AP-MW-6D | Oxidation Reduction Potention | 2/14/2022 12:25 | -152.16 | mv |
| GS-AP-MW-6D | pH | 2/14/2022 12:25 | 7.42 | SU |
| GS-AP-MW-6D | Temperature | 2/14/2022 12:25 | 17.77 | C |
| GS-AP-MW-6D | Turbidity | 2/14/2022 12:25 | 0.97 | NTU |
| GS-AP-MW-6D | Conductivity | 2/14/2022 12:30 | 460.9 | uS/cm |
| GS-AP-MW-6D | DO | 2/14/2022 12:30 | 0.13 | mg/L |
| GS-AP-MW-6D | Depth to Water Detail | 2/14/2022 12:30 | 12.34 | ft |
| GS-AP-MW-6D | Oxidation Reduction Potention | 2/14/2022 12:30 | -158.06 | mv |
| GS-AP-MW-6D | pH | 2/14/2022 12:30 | 7.43 | SU |
| GS-AP-MW-6D | Temperature | 2/14/2022 12:30 | 17.83 | C |
| GS-AP-MW-6D | Turbidity | 2/14/2022 12:30 | 0.95 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-23H | Conductivity | 2/14/2022 13:29 | 762.21 | uS/cm |
| GS-AP-MW-23H | DO | 2/14/2022 13:29 | 0.6 | mg/L |
| GS-AP-MW-23H | Depth to Water Detail | 2/14/2022 13:29 | 29.06 | ft |
| GS-AP-MW-23H | Oxidation Reduction Potention | 2/14/2022 13:29 | -4.2 | mv |
| GS-AP-MW-23H | pH | 2/14/2022 13:29 | 5.75 | SU |
| GS-AP-MW-23H | Temperature | 2/14/2022 13:29 | 17.83 | C |
| GS-AP-MW-23H | Turbidity | 2/14/2022 13:29 | 3.06 | NTU |
| GS-AP-MW-23H | Conductivity | 2/14/2022 13:34 | 768.59 | uS/cm |
| GS-AP-MW-23H | DO | 2/14/2022 13:34 | 0.66 | mg/L |
| GS-AP-MW-23H | Depth to Water Detail | 2/14/2022 13:34 | 29.11 | ft |
| GS-AP-MW-23H | Oxidation Reduction Potention | 2/14/2022 13:34 | -1.69 | mv |
| GS-AP-MW-23H | pH | 2/14/2022 13:34 | 5.76 | SU |
| GS-AP-MW-23H | Temperature | 2/14/2022 13:34 | 17.86 | C |
| GS-AP-MW-23H | Turbidity | 2/14/2022 13:34 | 2.97 | NTU |
| GS-AP-MW-23H | Conductivity | 2/14/2022 13:39 | 770.26 | uS/cm |
| GS-AP-MW-23H | DO | 2/14/2022 13:39 | 0.69 | mg/L |
| GS-AP-MW-23H | Depth to Water Detail | 2/14/2022 13:39 | 29.14 | ft |
| GS-AP-MW-23H | Oxidation Reduction Potention | 2/14/2022 13:39 | -1.3 | mv |
| GS-AP-MW-23H | pH | 2/14/2022 13:39 | 5.78 | SU |
| GS-AP-MW-23H | Temperature | 2/14/2022 13:39 | 17.83 | C |
| GS-AP-MW-23H | Turbidity | 2/14/2022 13:39 | 2.31 | NTU |
| GS-AP-MW-23H | Conductivity | 2/14/2022 13:44 | 770.3 | uS/cm |
| GS-AP-MW-23H | DO | 2/14/2022 13:44 | 0.64 | mg/L |
| GS-AP-MW-23H | Depth to Water Detail | 2/14/2022 13:44 | 29.14 | ft |
| GS-AP-MW-23H | Oxidation Reduction Potention | 2/14/2022 13:44 | -1.79 | mv |
| GS-AP-MW-23H | pH | 2/14/2022 13:44 | 5.8 | SU |
| GS-AP-MW-23H | Temperature | 2/14/2022 13:44 | 17.86 | C |
| GS-AP-MW-23H | Turbidity | 2/14/2022 13:44 | 1.88 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-41HD | Conductivity | 2/15/2022 8:56 | 498.84 | uS/cm |
| GS-AP-MW-41HD | DO | 2/15/2022 8:56 | 0.26 | mg/L |
| GS-AP-MW-41HD | Depth to Water Detail | 2/15/2022 8:56 | 4.91 | ft |
| GS-AP-MW-41HD | Oxidation Reduction Potention | 2/15/2022 8:56 | 38.34 | mv |
| GS-AP-MW-41HD | pH | 2/15/2022 8:56 | 7.11 | SU |
| GS-AP-MW-41HD | Temperature | 2/15/2022 8:56 | 15.06 | C |
| GS-AP-MW-41HD | Turbidity | 2/15/2022 8:56 | 1.04 | NTU |
| GS-AP-MW-41HD | Conductivity | 2/15/2022 9:01 | 496.69 | uS/cm |
| GS-AP-MW-41HD | DO | 2/15/2022 9:01 | 0.23 | mg/L |
| GS-AP-MW-41HD | Depth to Water Detail | 2/15/2022 9:01 | 6.14 | ft |
| GS-AP-MW-41HD | Oxidation Reduction Potention | 2/15/2022 9:01 | 16.79 | mv |
| GS-AP-MW-41HD | pH | 2/15/2022 9:01 | 7.19 | SU |
| GS-AP-MW-41HD | Temperature | 2/15/2022 9:01 | 15.23 | C |
| GS-AP-MW-41HD | Turbidity | 2/15/2022 9:01 | 0.82 | NTU |
| GS-AP-MW-41HD | Conductivity | 2/15/2022 9:06 | 495.57 | uS/cm |
| GS-AP-MW-41HD | DO | 2/15/2022 9:06 | 0.22 | mg/L |
| GS-AP-MW-41HD | Depth to Water Detail | 2/15/2022 9:06 | 6.39 | ft |
| GS-AP-MW-41HD | Oxidation Reduction Potention | 2/15/2022 9:06 | 11.08 | mv |
| GS-AP-MW-41HD | pH | 2/15/2022 9:06 | 7.26 | SU |
| GS-AP-MW-41HD | Temperature | 2/15/2022 9:06 | 15.36 | C |
| GS-AP-MW-41HD | Turbidity | 2/15/2022 9:06 | 0.74 | NTU |
| GS-AP-MW-41HD | Conductivity | 2/15/2022 9:11 | 495.23 | uS/cm |
| GS-AP-MW-41HD | DO | 2/15/2022 9:11 | 0.22 | mg/L |
| GS-AP-MW-41HD | Depth to Water Detail | 2/15/2022 9:11 | 6.62 | ft |
| GS-AP-MW-41HD | Oxidation Reduction Potention | 2/15/2022 9:11 | 9.23 | mv |
| GS-AP-MW-41HD | pH | 2/15/2022 9:11 | 7.3 | SU |
| GS-AP-MW-41HD | Temperature | 2/15/2022 9:11 | 15.59 | C |
| GS-AP-MW-41HD | Turbidity | 2/15/2022 9:11 | 0.81 | NTU |
| GS-AP-MW-41HD | Conductivity | 2/15/2022 9:16 | 494.9 | uS/cm |
| GS-AP-MW-41HD | DO | 2/15/2022 9:16 | 0.22 | mg/L |
| GS-AP-MW-41HD | Depth to Water Detail | 2/15/2022 9:16 | 6.7 | ft |
| GS-AP-MW-41HD | Oxidation Reduction Potention | 2/15/2022 9:16 | 8.82 | mv |
| GS-AP-MW-41HD | pH | 2/15/2022 9:16 | 7.32 | SU |
| GS-AP-MW-41HD | Temperature | 2/15/2022 9:16 | 15.76 | C |
| GS-AP-MW-41HD | Turbidity | 2/15/2022 9:16 | 0.73 | NTU |
| GS-AP-MW-41HD | Conductivity | 2/15/2022 9:21 | 495.04 | uS/cm |
| GS-AP-MW-41HD | DO | 2/15/2022 9:21 | 0.21 | mg/L |
| GS-AP-MW-41HD | Depth to Water Detail | 2/15/2022 9:21 | 6.73 | ft |
| GS-AP-MW-41HD | Oxidation Reduction Potention | 2/15/2022 9:21 | 7.04 | mv |
| GS-AP-MW-41HD | pH | 2/15/2022 9:21 | 7.35 | SU |
| GS-AP-MW-41HD | Temperature | 2/15/2022 9:21 | 15.98 | C |
| GS-AP-MW-41HD | Turbidity | 2/15/2022 9:21 | 0.86 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-24H | Conductivity | 2/15/2022 10:19 | 430.55 | uS/cm |
| GS-AP-MW-24H | DO | 2/15/2022 10:19 | 0.16 | mg/L |
| GS-AP-MW-24H | Depth to Water Detail | 2/15/2022 10:19 | 6.72 | ft |
| GS-AP-MW-24H | Oxidation Reduction Potention | 2/15/2022 10:19 | -86.81 | mv |
| GS-AP-MW-24H | pH | 2/15/2022 10:19 | 6.99 | SU |
| GS-AP-MW-24H | Temperature | 2/15/2022 10:19 | 17.56 | C |
| GS-AP-MW-24H | Turbidity | 2/15/2022 10:19 | 4.72 | NTU |
| GS-AP-MW-24H | Conductivity | 2/15/2022 10:24 | 431.55 | uS/cm |
| GS-AP-MW-24H | DO | 2/15/2022 10:24 | 0.15 | mg/L |
| GS-AP-MW-24H | Depth to Water Detail | 2/15/2022 10:24 | 6.79 | ft |
| GS-AP-MW-24H | Oxidation Reduction Potention | 2/15/2022 10:24 | -85.61 | mv |
| GS-AP-MW-24H | pH | 2/15/2022 10:24 | 6.99 | SU |
| GS-AP-MW-24H | Temperature | 2/15/2022 10:24 | 17.57 | C |
| GS-AP-MW-24H | Turbidity | 2/15/2022 10:24 | 4.51 | NTU |
| GS-AP-MW-24H | Conductivity | 2/15/2022 10:29 | 431.53 | uS/cm |
| GS-AP-MW-24H | DO | 2/15/2022 10:29 | 0.14 | mg/L |
| GS-AP-MW-24H | Depth to Water Detail | 2/15/2022 10:29 | 6.79 | ft |
| GS-AP-MW-24H | Oxidation Reduction Potention | 2/15/2022 10:29 | -85.54 | mv |
| GS-AP-MW-24H | pH | 2/15/2022 10:29 | 7 | SU |
| GS-AP-MW-24H | Temperature | 2/15/2022 10:29 | 17.59 | C |
| GS-AP-MW-24H | Turbidity | 2/15/2022 10:29 | 2.74 | NTU |
| GS-AP-MW-24H | Conductivity | 2/15/2022 10:34 | 432.15 | uS/cm |
| GS-AP-MW-24H | DO | 2/15/2022 10:34 | 0.14 | mg/L |
| GS-AP-MW-24H | Depth to Water Detail | 2/15/2022 10:34 | 6.79 | ft |
| GS-AP-MW-24H | Oxidation Reduction Potention | 2/15/2022 10:34 | -85.46 | mv |
| GS-AP-MW-24H | pH | 2/15/2022 10:34 | 7 | SU |
| GS-AP-MW-24H | Temperature | 2/15/2022 10:34 | 17.63 | C |
| GS-AP-MW-24H | Turbidity | 2/15/2022 10:34 | 2.66 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-40H | Conductivity | 2/15/2022 12:02 | 1665.41 | uS/cm |
| GS-AP-MW-40H | DO | 2/15/2022 12:02 | 1.51 | mg/L |
| GS-AP-MW-40H | Depth to Water Detail | 2/15/2022 12:02 | 81.64 | ft |
| GS-AP-MW-40H | Oxidation Reduction Potention | 2/15/2022 12:02 | 32.78 | mv |
| GS-AP-MW-40H | pH | 2/15/2022 12:02 | 6.65 | SU |
| GS-AP-MW-40H | Temperature | 2/15/2022 12:02 | 19.79 | C |
| GS-AP-MW-40H | Turbidity | 2/15/2022 12:02 | 17.3 | NTU |
| GS-AP-MW-40H | Conductivity | 2/15/2022 12:07 | 1653.97 | uS/cm |
| GS-AP-MW-40H | DO | 2/15/2022 12:07 | 1.42 | mg/L |
| GS-AP-MW-40H | Depth to Water Detail | 2/15/2022 12:07 | 81.93 | ft |
| GS-AP-MW-40H | Oxidation Reduction Potention | 2/15/2022 12:07 | 13.86 | mv |
| GS-AP-MW-40H | pH | 2/15/2022 12:07 | 6.64 | SU |
| GS-AP-MW-40H | Temperature | 2/15/2022 12:07 | 19.89 | C |
| GS-AP-MW-40H | Turbidity | 2/15/2022 12:07 | 7.18 | NTU |
| GS-AP-MW-40H | Conductivity | 2/15/2022 12:12 | 1642.27 | uS/cm |
| GS-AP-MW-40H | DO | 2/15/2022 12:12 | 1.46 | mg/L |
| GS-AP-MW-40H | Depth to Water Detail | 2/15/2022 12:12 | 82.18 | ft |
| GS-AP-MW-40H | Oxidation Reduction Potention | 2/15/2022 12:12 | 2.06 | mv |
| GS-AP-MW-40H | pH | 2/15/2022 12:12 | 6.63 | SU |
| GS-AP-MW-40H | Temperature | 2/15/2022 12:12 | 19.9 | C |
| GS-AP-MW-40H | Turbidity | 2/15/2022 12:12 | 4.69 | NTU |
| GS-AP-MW-40H | Conductivity | 2/15/2022 12:17 | 1629.68 | uS/cm |
| GS-AP-MW-40H | DO | 2/15/2022 12:17 | 1.54 | mg/L |
| GS-AP-MW-40H | Depth to Water Detail | 2/15/2022 12:17 | 82.31 | ft |
| GS-AP-MW-40H | Oxidation Reduction Potention | 2/15/2022 12:17 | -4.58 | mv |
| GS-AP-MW-40H | pH | 2/15/2022 12:17 | 6.62 | SU |
| GS-AP-MW-40H | Temperature | 2/15/2022 12:17 | 19.99 | C |
| GS-AP-MW-40H | Turbidity | 2/15/2022 12:17 | 3.43 | NTU |
| GS-AP-MW-40H | Conductivity | 2/15/2022 12:22 | 1614.47 | uS/cm |
| GS-AP-MW-40H | DO | 2/15/2022 12:22 | 1.52 | mg/L |
| GS-AP-MW-40H | Depth to Water Detail | 2/15/2022 12:22 | 82.42 | ft |
| GS-AP-MW-40H | Oxidation Reduction Potention | 2/15/2022 12:22 | -9.09 | mv |
| GS-AP-MW-40H | pH | 2/15/2022 12:22 | 6.6 | SU |
| GS-AP-MW-40H | Temperature | 2/15/2022 12:22 | 20.14 | C |
| GS-AP-MW-40H | Turbidity | 2/15/2022 12:22 | 3.7 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-26H | Conductivity | 2/15/2022 13:39 | 621.81 | uS/cm |
| GS-AP-MW-26H | DO | 2/15/2022 13:39 | 0.15 | mg/L |
| GS-AP-MW-26H | Depth to Water Detail | 2/15/2022 13:39 | 103.31 | ft |
| GS-AP-MW-26H | Oxidation Reduction Potention | 2/15/2022 13:39 | -95.45 | mv |
| GS-AP-MW-26H | pH | 2/15/2022 13:39 | 6.78 | SU |
| GS-AP-MW-26H | Temperature | 2/15/2022 13:39 | 18.83 | C |
| GS-AP-MW-26H | Turbidity | 2/15/2022 13:39 | 1.04 | NTU |
| GS-AP-MW-26H | Conductivity | 2/15/2022 13:44 | 513.65 | uS/cm |
| GS-AP-MW-26H | DO | 2/15/2022 13:44 | 0.14 | mg/L |
| GS-AP-MW-26H | Depth to Water Detail | 2/15/2022 13:44 | 107.19 | ft |
| GS-AP-MW-26H | Oxidation Reduction Potention | 2/15/2022 13:44 | -84.52 | mv |
| GS-AP-MW-26H | pH | 2/15/2022 13:44 | 6.73 | SU |
| GS-AP-MW-26H | Temperature | 2/15/2022 13:44 | 18.85 | C |
| GS-AP-MW-26H | Turbidity | 2/15/2022 13:44 | 1.28 | NTU |
| GS-AP-MW-26H | Conductivity | 2/15/2022 13:49 | 492.01 | uS/cm |
| GS-AP-MW-26H | DO | 2/15/2022 13:49 | 0.15 | mg/L |
| GS-AP-MW-26H | Depth to Water Detail | 2/15/2022 13:49 | 110.59 | ft |
| GS-AP-MW-26H | Oxidation Reduction Potention | 2/15/2022 13:49 | -78.69 | mv |
| GS-AP-MW-26H | pH | 2/15/2022 13:49 | 6.7 | SU |
| GS-AP-MW-26H | Temperature | 2/15/2022 13:49 | 18.86 | C |
| GS-AP-MW-26H | Turbidity | 2/15/2022 13:49 | 1.31 | NTU |
| GS-AP-MW-26H | Conductivity | 2/15/2022 13:54 | 487.92 | uS/cm |
| GS-AP-MW-26H | DO | 2/15/2022 13:54 | 0.15 | mg/L |
| GS-AP-MW-26H | Depth to Water Detail | 2/15/2022 13:54 | 113.03 | ft |
| GS-AP-MW-26H | Oxidation Reduction Potention | 2/15/2022 13:54 | -77.78 | mv |
| GS-AP-MW-26H | pH | 2/15/2022 13:54 | 6.7 | SU |
| GS-AP-MW-26H | Temperature | 2/15/2022 13:54 | 18.94 | C |
| GS-AP-MW-26H | Turbidity | 2/15/2022 13:54 | 1.59 | NTU |
| GS-AP-MW-26H | Conductivity | 2/15/2022 13:59 | 486.4 | uS/cm |
| GS-AP-MW-26H | DO | 2/15/2022 13:59 | 0.25 | mg/L |
| GS-AP-MW-26H | Depth to Water Detail | 2/15/2022 13:59 | 113.65 | ft |
| GS-AP-MW-26H | Oxidation Reduction Potention | 2/15/2022 13:59 | -78.6 | mv |
| GS-AP-MW-26H | pH | 2/15/2022 13:59 | 6.71 | SU |
| GS-AP-MW-26H | Temperature | 2/15/2022 13:59 | 19.51 | C |
| GS-AP-MW-26H | Turbidity | 2/15/2022 13:59 | 2.08 | NTU |
| GS-AP-MW-26H | Conductivity | 2/15/2022 14:04 | 483.4 | uS/cm |
| GS-AP-MW-26H | DO | 2/15/2022 14:04 | 0.29 | mg/L |
| GS-AP-MW-26H | Depth to Water Detail | 2/15/2022 14:04 | 113.72 | ft |
| GS-AP-MW-26H | Oxidation Reduction Potention | 2/15/2022 14:04 | -81.07 | mv |
| GS-AP-MW-26H | pH | 2/15/2022 14:04 | 6.75 | SU |
| GS-AP-MW-26H | Temperature | 2/15/2022 14:04 | 19.52 | C |
| GS-AP-MW-26H | Turbidity | 2/15/2022 14:04 | 1.82 | NTU |
| GS-AP-MW-26H | Conductivity | 2/15/2022 14:09 | 485.8 | uS/cm |
| GS-AP-MW-26H | DO | 2/15/2022 14:09 | 0.33 | mg/L |
| GS-AP-MW-26H | Depth to Water Detail | 2/15/2022 14:09 | 113.84 | ft |
| GS-AP-MW-26H | Oxidation Reduction Potention | 2/15/2022 14:09 | -85.1 | mv |
| GS-AP-MW-26H | pH | 2/15/2022 14:09 | 6.82 | SU |
| GS-AP-MW-26H | Temperature | 2/15/2022 14:09 | 19.45 | C |
| GS-AP-MW-26H | Turbidity | 2/15/2022 14:09 | 1.88 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-42H | Conductivity | 2/16/2022 9:28 | 1046.61 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 9:28 | 0.22 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 9:28 | 52.72 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 9:28 | -15.13 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 9:28 | 6.25 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 9:28 | 18.25 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 9:28 | 46 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 9:33 | 1037.8 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 9:33 | 0.18 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 9:33 | 52.74 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 9:33 | -14.21 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 9:33 | 6.3 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 9:33 | 18.26 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 9:33 | 73.3 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 9:38 | 1032.64 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 9:38 | 0.17 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 9:38 | 52.79 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 9:38 | -13.66 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 9:38 | 6.35 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 9:38 | 18.31 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 9:38 | 66.9 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 9:43 | 1031.16 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 9:43 | 0.16 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 9:43 | 52.82 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 9:43 | -13.86 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 9:43 | 6.4 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 9:43 | 18.35 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 9:43 | 53 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 9:48 | 1026.26 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 9:48 | 0.16 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 9:48 | 52.84 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 9:48 | -14.58 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 9:48 | 6.44 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 9:48 | 18.36 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 9:48 | 32.9 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 9:53 | 1028.79 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 9:53 | 0.15 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 9:53 | 52.86 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 9:53 | -14.77 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 9:53 | 6.46 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 9:53 | 18.39 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 9:53 | 22.5 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 9:58 | 1024.2 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 9:58 | 0.16 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 9:58 | 52.86 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 9:58 | -15.01 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 9:58 | 6.48 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 9:58 | 18.39 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 9:58 | 17.4 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 10:03 | 1026.29 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 10:03 | 0.15 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 10:03 | 52.86 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 10:03 | -15.12 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 10:03 | 6.49 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 10:03 | 18.4 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 10:03 | 17.2 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 10:08 | 1025.9 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 10:08 | 0.15 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 10:08 | 52.86 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 10:08 | -15.45 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 10:08 | 6.5 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 10:08 | 18.41 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 10:08 | 11.7 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 10:13 | 1025.33 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 10:13 | 0.15 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 10:13 | 52.86 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 10:13 | -15.72 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 10:13 | 6.51 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 10:13 | 18.44 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 10:13 | 9.93 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 10:18 | 1023.65 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 10:18 | 0.15 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 10:18 | 52.86 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 10:18 | -15.89 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 10:18 | 6.52 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 10:18 | 18.48 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 10:18 | 9.04 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 10:23 | 1029.43 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 10:23 | 0.15 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 10:23 | 52.86 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 10:23 | -15.68 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 10:23 | 6.53 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 10:23 | 18.49 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 10:23 | 8.22 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 10:28 | 1031.68 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 10:28 | 0.15 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 10:28 | 52.86 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 10:28 | -15.85 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 10:28 | 6.53 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 10:28 | 18.5 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 10:28 | 8.25 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 10:33 | 1035.86 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 10:33 | 0.15 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 10:33 | 52.86 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 10:33 | -16.06 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 10:33 | 6.54 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 10:33 | 18.56 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 10:33 | 5.26 | NTU |
| GS-AP-MW-42H | Conductivity | 2/16/2022 10:38 | 1038.72 | uS/cm |
| GS-AP-MW-42H | DO | 2/16/2022 10:38 | 0.14 | mg/L |
| GS-AP-MW-42H | Depth to Water Detail | 2/16/2022 10:38 | 52.86 | ft |
| GS-AP-MW-42H | Oxidation Reduction Potention | 2/16/2022 10:38 | -16.06 | mv |
| GS-AP-MW-42H | pH | 2/16/2022 10:38 | 6.54 | SU |
| GS-AP-MW-42H | Temperature | 2/16/2022 10:38 | 18.59 | C |
| GS-AP-MW-42H | Turbidity | 2/16/2022 10:38 | 4.98 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-8 | Conductivity | 2/16/2022 11:50 | 143.81 | uS/cm |
| GS-AP-MW-8 | DO | 2/16/2022 11:50 | 0.91 | mg/L |
| GS-AP-MW-8 | Depth to Water Detail | 2/16/2022 11:50 | 44.8 | ft |
| GS-AP-MW-8 | Oxidation Reduction Potention | 2/16/2022 11:50 | 185.2 | mv |
| GS-AP-MW-8 | pH | 2/16/2022 11:50 | 5.8 | SU |
| GS-AP-MW-8 | Temperature | 2/16/2022 11:50 | 20.12 | C |
| GS-AP-MW-8 | Turbidity | 2/16/2022 11:50 | 3.32 | NTU |
| GS-AP-MW-8 | Conductivity | 2/16/2022 11:55 | 143.29 | uS/cm |
| GS-AP-MW-8 | DO | 2/16/2022 11:55 | 0.81 | mg/L |
| GS-AP-MW-8 | Depth to Water Detail | 2/16/2022 11:55 | 44.94 | ft |
| GS-AP-MW-8 | Oxidation Reduction Potention | 2/16/2022 11:55 | 195.5 | mv |
| GS-AP-MW-8 | pH | 2/16/2022 11:55 | 5.77 | SU |
| GS-AP-MW-8 | Temperature | 2/16/2022 11:55 | 19.79 | C |
| GS-AP-MW-8 | Turbidity | 2/16/2022 11:55 | 2.92 | NTU |
| GS-AP-MW-8 | Conductivity | 2/16/2022 12:00 | 143.37 | uS/cm |
| GS-AP-MW-8 | DO | 2/16/2022 12:00 | 0.76 | mg/L |
| GS-AP-MW-8 | Depth to Water Detail | 2/16/2022 12:00 | 45.06 | ft |
| GS-AP-MW-8 | Oxidation Reduction Potention | 2/16/2022 12:00 | 199.37 | mv |
| GS-AP-MW-8 | pH | 2/16/2022 12:00 | 5.8 | SU |
| GS-AP-MW-8 | Temperature | 2/16/2022 12:00 | 19.67 | C |
| GS-AP-MW-8 | Turbidity | 2/16/2022 12:00 | 4.8 | NTU |
| GS-AP-MW-8 | Conductivity | 2/16/2022 12:05 | 143.27 | uS/cm |
| GS-AP-MW-8 | DO | 2/16/2022 12:05 | 0.73 | mg/L |
| GS-AP-MW-8 | Depth to Water Detail | 2/16/2022 12:05 | 45.2 | ft |
| GS-AP-MW-8 | Oxidation Reduction Potention | 2/16/2022 12:05 | 201.45 | mv |
| GS-AP-MW-8 | pH | 2/16/2022 12:05 | 5.79 | SU |
| GS-AP-MW-8 | Temperature | 2/16/2022 12:05 | 19.87 | C |
| GS-AP-MW-8 | Turbidity | 2/16/2022 12:05 | 3.72 | NTU |
| GS-AP-MW-8 | Conductivity | 2/16/2022 12:10 | 142.9 | uS/cm |
| GS-AP-MW-8 | DO | 2/16/2022 12:10 | 0.72 | mg/L |
| GS-AP-MW-8 | Depth to Water Detail | 2/16/2022 12:10 | 45.34 | ft |
| GS-AP-MW-8 | Oxidation Reduction Potention | 2/16/2022 12:10 | 200.76 | mv |
| GS-AP-MW-8 | pH | 2/16/2022 12:10 | 5.8 | SU |
| GS-AP-MW-8 | Temperature | 2/16/2022 12:10 | 19.92 | C |
| GS-AP-MW-8 | Turbidity | 2/16/2022 12:10 | 2.6 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-3 | Conductivity | 2/16/2022 14:18 | 454.61 | uS/cm |
| GS-AP-MW-3 | DO | 2/16/2022 14:18 | 0.32 | mg/L |
| GS-AP-MW-3 | Depth to Water Detail | 2/16/2022 14:18 | 144.11 | ft |
| GS-AP-MW-3 | Oxidation Reduction Potention | 2/16/2022 14:18 | -86.76 | mv |
| GS-AP-MW-3 | pH | 2/16/2022 14:18 | 7.7 | SU |
| GS-AP-MW-3 | Temperature | 2/16/2022 14:18 | 18.64 | C |
| GS-AP-MW-3 | Turbidity | 2/16/2022 14:18 | 1.67 | NTU |
| GS-AP-MW-3 | Conductivity | 2/16/2022 14:23 | 452.76 | uS/cm |
| GS-AP-MW-3 | DO | 2/16/2022 14:23 | 0.31 | mg/L |
| GS-AP-MW-3 | Depth to Water Detail | 2/16/2022 14:23 | 146.09 | ft |
| GS-AP-MW-3 | Oxidation Reduction Potention | 2/16/2022 14:23 | -67.98 | mv |
| GS-AP-MW-3 | pH | 2/16/2022 14:23 | 7.47 | SU |
| GS-AP-MW-3 | Temperature | 2/16/2022 14:23 | 18.32 | C |
| GS-AP-MW-3 | Turbidity | 2/16/2022 14:23 | 1.75 | NTU |
| GS-AP-MW-3 | Conductivity | 2/16/2022 14:28 | 453.62 | uS/cm |
| GS-AP-MW-3 | DO | 2/16/2022 14:28 | 0.31 | mg/L |
| GS-AP-MW-3 | Depth to Water Detail | 2/16/2022 14:28 | 147.94 | ft |
| GS-AP-MW-3 | Oxidation Reduction Potention | 2/16/2022 14:28 | -66.97 | mv |
| GS-AP-MW-3 | pH | 2/16/2022 14:28 | 7.48 | SU |
| GS-AP-MW-3 | Temperature | 2/16/2022 14:28 | 18.57 | C |
| GS-AP-MW-3 | Turbidity | 2/16/2022 14:28 | 1.15 | NTU |
| GS-AP-MW-3 | Conductivity | 2/16/2022 14:33 | 456.22 | uS/cm |
| GS-AP-MW-3 | DO | 2/16/2022 14:33 | 0.32 | mg/L |
| GS-AP-MW-3 | Depth to Water Detail | 2/16/2022 14:33 | 149.31 | ft |
| GS-AP-MW-3 | Oxidation Reduction Potention | 2/16/2022 14:33 | -73.1 | mv |
| GS-AP-MW-3 | pH | 2/16/2022 14:33 | 7.53 | SU |
| GS-AP-MW-3 | Temperature | 2/16/2022 14:33 | 18.45 | C |
| GS-AP-MW-3 | Turbidity | 2/16/2022 14:33 | 1.14 | NTU |
| GS-AP-MW-3 | Conductivity | 2/16/2022 14:38 | 460.46 | uS/cm |
| GS-AP-MW-3 | DO | 2/16/2022 14:38 | 0.33 | mg/L |
| GS-AP-MW-3 | Depth to Water Detail | 2/16/2022 14:38 | 150.22 | ft |
| GS-AP-MW-3 | Oxidation Reduction Potention | 2/16/2022 14:38 | -85.83 | mv |
| GS-AP-MW-3 | pH | 2/16/2022 14:38 | 7.57 | SU |
| GS-AP-MW-3 | Temperature | 2/16/2022 14:38 | 18.56 | C |
| GS-AP-MW-3 | Turbidity | 2/16/2022 14:38 | 1.36 | NTU |
| GS-AP-MW-3 | Conductivity | 2/16/2022 14:43 | 463.99 | uS/cm |
| GS-AP-MW-3 | DO | 2/16/2022 14:43 | 0.45 | mg/L |
| GS-AP-MW-3 | Depth to Water Detail | 2/16/2022 14:43 | 150.39 | ft |
| GS-AP-MW-3 | Oxidation Reduction Potention | 2/16/2022 14:43 | -99.64 | mv |
| GS-AP-MW-3 | pH | 2/16/2022 14:43 | 7.62 | SU |
| GS-AP-MW-3 | Temperature | 2/16/2022 14:43 | 18.69 | C |
| GS-AP-MW-3 | Turbidity | 2/16/2022 14:43 | 1.18 | NTU |
| GS-AP-MW-3 | Conductivity | 2/16/2022 14:48 | 470.84 | uS/cm |
| GS-AP-MW-3 | DO | 2/16/2022 14:48 | 0.49 | mg/L |
| GS-AP-MW-3 | Depth to Water Detail | 2/16/2022 14:48 | 150.44 | ft |
| GS-AP-MW-3 | Oxidation Reduction Potention | 2/16/2022 14:48 | -118.21 | mv |
| GS-AP-MW-3 | pH | 2/16/2022 14:48 | 7.71 | SU |
| GS-AP-MW-3 | Temperature | 2/16/2022 14:48 | 18.54 | C |
| GS-AP-MW-3 | Turbidity | 2/16/2022 14:48 | 1.09 | NTU |
| GS-AP-MW-3 | Conductivity | 2/16/2022 14:53 | 482.31 | uS/cm |
| GS-AP-MW-3 | DO | 2/16/2022 14:53 | 0.52 | mg/L |
| GS-AP-MW-3 | Depth to Water Detail | 2/16/2022 14:53 | 150.46 | ft |
| GS-AP-MW-3 | Oxidation Reduction Potention | 2/16/2022 14:53 | -142.54 | mv |
| GS-AP-MW-3 | pH | 2/16/2022 14:53 | 7.78 | SU |
| GS-AP-MW-3 | Temperature | 2/16/2022 14:53 | 18.66 | C |
| GS-AP-MW-3 | Turbidity | 2/16/2022 14:53 | 1.12 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-15 | Conductivity | 2/16/2022 8:30 | 2156.86 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 8:30 | 0.83 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 8:30 | 84.17 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 8:30 | -57.98 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 8:30 | 11.81 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 8:30 | 16.72 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 8:30 | 3.13 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 8:35 | 2160.22 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 8:35 | 0.68 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 8:35 | 86.04 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 8:35 | -114.39 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 8:35 | 12.06 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 8:35 | 16.65 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 8:35 | 1.76 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 8:40 | 2146.84 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 8:40 | 0.62 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 8:40 | 88.46 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 8:40 | -146.47 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 8:40 | 12.15 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 8:40 | 16.59 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 8:40 | 1 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 8:45 | 2126.81 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 8:45 | 0.59 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 8:45 | 89.62 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 8:45 | -167.94 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 8:45 | 12.19 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 8:45 | 16.74 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 8:45 | 0.86 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 8:50 | 2111.52 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 8:50 | 0.91 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 8:50 | 90.68 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 8:50 | -180.5 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 8:50 | 12.23 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 8:50 | 16.31 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 8:50 | 0.76 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 8:55 | 2094.75 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 8:55 | 0.95 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 8:55 | 90.96 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 8:55 | -188.52 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 8:55 | 12.24 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 8:55 | 16.34 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 8:55 | 0.6 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:00 | 2048.1 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:00 | 0.97 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:00 | 91.2 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 9:00 | -194.5 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:00 | 12.25 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:00 | 16.5 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:00 | 0.66 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:05 | 1992.18 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:05 | 0.96 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:05 | 91.34 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 9:05 | -198.2 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:05 | 12.25 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:05 | 16.4 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:05 | 0.82 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:10 | 1920.47 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:10 | 0.89 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:10 | 91.58 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potential | 2/16/2022 9:10 | -201.52 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:10 | 12.24 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:10 | 16.57 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:10 | 0.46 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:15 | 1858.86 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:15 | 0.99 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:15 | 91.79 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potential | 2/16/2022 9:15 | -204.51 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:15 | 12.24 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:15 | 16.77 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:15 | 0.86 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:20 | 1819.17 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:20 | 1.16 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:20 | 91.98 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potential | 2/16/2022 9:20 | -202.62 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:20 | 12.21 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:20 | 16.75 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:20 | 1.24 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:25 | 1760.34 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:25 | 1.19 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:25 | 92.12 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potential | 2/16/2022 9:25 | -201.87 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:25 | 12.19 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:25 | 16.78 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:25 | 1.11 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:30 | 1703.2 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:30 | 1.21 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:30 | 92.18 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potential | 2/16/2022 9:30 | -200.92 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:30 | 12.19 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:30 | 16.56 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:30 | 1.02 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:35 | 1646.48 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:35 | 1.28 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:35 | 92.24 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potential | 2/16/2022 9:35 | -200.51 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:35 | 12.17 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:35 | 16.83 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:35 | 2.04 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:40 | 1589.94 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:40 | 1.49 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:40 | 92.29 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potential | 2/16/2022 9:40 | -199.21 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:40 | 12.17 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:40 | 16.98 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:40 | 1.16 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:45 | 1477.67 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:45 | 1.24 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:45 | 92.34 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potential | 2/16/2022 9:45 | -199.12 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:45 | 12.13 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:45 | 17.41 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:45 | 1.51 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:50 | 1344.14 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:50 | 1.05 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:50 | 92.37 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potential | 2/16/2022 9:50 | -201 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-15 | pH | 2/16/2022 9:50 | 12.07 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:50 | 17.42 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:50 | 1.45 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 9:55 | 1262.46 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 9:55 | 0.99 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 9:55 | 92.42 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 9:55 | -202.2 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 9:55 | 12.01 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 9:55 | 17.54 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 9:55 | 1.42 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 10:00 | 1148.93 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 10:00 | 0.96 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 10:00 | 92.45 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 10:00 | -203.05 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 10:00 | 11.96 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 10:00 | 17.64 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 10:00 | 1.32 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 10:05 | 1088.78 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 10:05 | 0.94 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 10:05 | 92.5 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 10:05 | -203.63 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 10:05 | 11.89 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 10:05 | 17.79 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 10:05 | 1.09 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 10:10 | 1043.77 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 10:10 | 0.93 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 10:10 | 92.53 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 10:10 | -203.33 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 10:10 | 11.84 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 10:10 | 17.85 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 10:10 | 0.84 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 10:15 | 975.39 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 10:15 | 0.93 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 10:15 | 92.58 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 10:15 | -203.27 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 10:15 | 11.79 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 10:15 | 17.9 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 10:15 | 0.95 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 10:20 | 898.14 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 10:20 | 0.92 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 10:20 | 92.6 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 10:20 | -202.85 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 10:20 | 11.73 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 10:20 | 18.02 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 10:20 | 0.9 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 10:25 | 854.26 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 10:25 | 0.93 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 10:25 | 92.63 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 10:25 | -202.67 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 10:25 | 11.68 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 10:25 | 18.09 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 10:25 | 0.91 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 10:30 | 842.57 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 10:30 | 0.93 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 10:30 | 92.64 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 10:30 | -202.32 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 10:30 | 11.62 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 10:30 | 18.24 | C |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-15 | Turbidity | 2/16/2022 10:30 | 1.08 | NTU |
| GS-AP-MW-15 | Conductivity | 2/16/2022 10:35 | 841.02 | uS/cm |
| GS-AP-MW-15 | DO | 2/16/2022 10:35 | 0.93 | mg/L |
| GS-AP-MW-15 | Depth to Water Detail | 2/16/2022 10:35 | 92.64 | ft |
| GS-AP-MW-15 | Oxidation Reduction Potention | 2/16/2022 10:35 | -202.12 | mv |
| GS-AP-MW-15 | pH | 2/16/2022 10:35 | 11.57 | SU |
| GS-AP-MW-15 | Temperature | 2/16/2022 10:35 | 18.35 | C |
| GS-AP-MW-15 | Turbidity | 2/16/2022 10:35 | 1.11 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-15V | Conductivity | 2/16/2022 11:22 | 1419.93 | uS/cm |
| GS-AP-MW-15V | DO | 2/16/2022 11:22 | 0.68 | mg/L |
| GS-AP-MW-15V | Depth to Water Detail | 2/16/2022 11:22 | 150.68 | ft |
| GS-AP-MW-15V | Oxidation Reduction Potention | 2/16/2022 11:22 | -135.12 | mv |
| GS-AP-MW-15V | pH | 2/16/2022 11:22 | 8.9 | SU |
| GS-AP-MW-15V | Temperature | 2/16/2022 11:22 | 17.9 | C |
| GS-AP-MW-15V | Turbidity | 2/16/2022 11:22 | 3.32 | NTU |
| GS-AP-MW-15V | Conductivity | 2/16/2022 11:27 | 1407.84 | uS/cm |
| GS-AP-MW-15V | DO | 2/16/2022 11:27 | 0.55 | mg/L |
| GS-AP-MW-15V | Depth to Water Detail | 2/16/2022 11:27 | 152.42 | ft |
| GS-AP-MW-15V | Oxidation Reduction Potention | 2/16/2022 11:27 | -130.44 | mv |
| GS-AP-MW-15V | pH | 2/16/2022 11:27 | 8.7 | SU |
| GS-AP-MW-15V | Temperature | 2/16/2022 11:27 | 17.96 | C |
| GS-AP-MW-15V | Turbidity | 2/16/2022 11:27 | 3.86 | NTU |
| GS-AP-MW-15V | Conductivity | 2/16/2022 11:32 | 1405.99 | uS/cm |
| GS-AP-MW-15V | DO | 2/16/2022 11:32 | 1.16 | mg/L |
| GS-AP-MW-15V | Depth to Water Detail | 2/16/2022 11:32 | 152.52 | ft |
| GS-AP-MW-15V | Oxidation Reduction Potention | 2/16/2022 11:32 | -122.37 | mv |
| GS-AP-MW-15V | pH | 2/16/2022 11:32 | 8.7 | SU |
| GS-AP-MW-15V | Temperature | 2/16/2022 11:32 | 19.02 | C |
| GS-AP-MW-15V | Turbidity | 2/16/2022 11:32 | 2.31 | NTU |
| GS-AP-MW-15V | Conductivity | 2/16/2022 11:37 | 1402.39 | uS/cm |
| GS-AP-MW-15V | DO | 2/16/2022 11:37 | 1.21 | mg/L |
| GS-AP-MW-15V | Depth to Water Detail | 2/16/2022 11:37 | 152.48 | ft |
| GS-AP-MW-15V | Oxidation Reduction Potention | 2/16/2022 11:37 | -114.75 | mv |
| GS-AP-MW-15V | pH | 2/16/2022 11:37 | 8.67 | SU |
| GS-AP-MW-15V | Temperature | 2/16/2022 11:37 | 19.29 | C |
| GS-AP-MW-15V | Turbidity | 2/16/2022 11:37 | 3.16 | NTU |
| GS-AP-MW-15V | Conductivity | 2/16/2022 11:42 | 1398.52 | uS/cm |
| GS-AP-MW-15V | DO | 2/16/2022 11:42 | 1.22 | mg/L |
| GS-AP-MW-15V | Depth to Water Detail | 2/16/2022 11:42 | 152.46 | ft |
| GS-AP-MW-15V | Oxidation Reduction Potention | 2/16/2022 11:42 | -110.61 | mv |
| GS-AP-MW-15V | pH | 2/16/2022 11:42 | 8.65 | SU |
| GS-AP-MW-15V | Temperature | 2/16/2022 11:42 | 19.25 | C |
| GS-AP-MW-15V | Turbidity | 2/16/2022 11:42 | 1.71 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-16D | Conductivity | 2/15/2022 11:49 | 361.52 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 11:49 | 1.24 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 11:49 | 140.37 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potential | 2/15/2022 11:49 | -60.09 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 11:49 | 7.38 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 11:49 | 17.63 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 11:49 | 5.13 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 11:54 | 361.9 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 11:54 | 0.97 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 11:54 | 141.31 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potential | 2/15/2022 11:54 | -69.15 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 11:54 | 7.4 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 11:54 | 17.71 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 11:54 | 3.54 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 11:59 | 359.72 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 11:59 | 0.89 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 11:59 | 141.76 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potential | 2/15/2022 11:59 | -73.02 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 11:59 | 7.42 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 11:59 | 17.83 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 11:59 | 4.42 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 12:04 | 359.63 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 12:04 | 0.92 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 12:04 | 142.21 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potential | 2/15/2022 12:04 | -76.21 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 12:04 | 7.47 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 12:04 | 17.81 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 12:04 | 5.1 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 12:09 | 358.41 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 12:09 | 0.99 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 12:09 | 142.44 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potential | 2/15/2022 12:09 | -77.79 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 12:09 | 7.51 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 12:09 | 17.99 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 12:09 | 5.11 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 12:14 | 357.1 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 12:14 | 1.23 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 12:14 | 142.57 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potential | 2/15/2022 12:14 | -77.71 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 12:14 | 7.54 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 12:14 | 18.51 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 12:14 | 5.38 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 12:19 | 358.78 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 12:19 | 1.7 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 12:19 | 142.7 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potential | 2/15/2022 12:19 | -76.07 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 12:19 | 7.58 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 12:19 | 19.62 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 12:19 | 4.98 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 12:24 | 354.73 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 12:24 | 1.03 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 12:24 | 142.86 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potential | 2/15/2022 12:24 | -70.68 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 12:24 | 7.47 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 12:24 | 17.94 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 12:24 | 4.88 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 12:29 | 350.2 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 12:29 | 0.93 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 12:29 | 143.02 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potention | 2/15/2022 12:29 | -68.97 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 12:29 | 7.44 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 12:29 | 17.86 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 12:29 | 4.77 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 12:34 | 348.44 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 12:34 | 0.86 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 12:34 | 143.17 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potention | 2/15/2022 12:34 | -68.73 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 12:34 | 7.42 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 12:34 | 17.94 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 12:34 | 4.79 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 12:39 | 348.74 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 12:39 | 0.82 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 12:39 | 143.35 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potention | 2/15/2022 12:39 | -71.34 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 12:39 | 7.46 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 12:39 | 17.97 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 12:39 | 4.48 | NTU |
| GS-AP-MW-16D | Conductivity | 2/15/2022 12:44 | 344.55 | uS/cm |
| GS-AP-MW-16D | DO | 2/15/2022 12:44 | 0.8 | mg/L |
| GS-AP-MW-16D | Depth to Water Detail | 2/15/2022 12:44 | 143.45 | ft |
| GS-AP-MW-16D | Oxidation Reduction Potention | 2/15/2022 12:44 | -72.79 | mv |
| GS-AP-MW-16D | pH | 2/15/2022 12:44 | 7.48 | SU |
| GS-AP-MW-16D | Temperature | 2/15/2022 12:44 | 18.04 | C |
| GS-AP-MW-16D | Turbidity | 2/15/2022 12:44 | 4.56 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-16S | Conductivity | 2/15/2022 13:34 | 3595.61 | uS/cm |
| GS-AP-MW-16S | DO | 2/15/2022 13:34 | 2.44 | mg/L |
| GS-AP-MW-16S | Depth to Water Detail | 2/15/2022 13:34 | 57.92 | ft |
| GS-AP-MW-16S | Oxidation Reduction Potention | 2/15/2022 13:34 | -106.39 | mv |
| GS-AP-MW-16S | pH | 2/15/2022 13:34 | 11.27 | SU |
| GS-AP-MW-16S | Temperature | 2/15/2022 13:34 | 18.07 | C |
| GS-AP-MW-16S | Turbidity | 2/15/2022 13:34 | 4.86 | NTU |
| GS-AP-MW-16S | Conductivity | 2/15/2022 13:39 | 3609.19 | uS/cm |
| GS-AP-MW-16S | DO | 2/15/2022 13:39 | 2.41 | mg/L |
| GS-AP-MW-16S | Depth to Water Detail | 2/15/2022 13:39 | 58.01 | ft |
| GS-AP-MW-16S | Oxidation Reduction Potention | 2/15/2022 13:39 | -111.69 | mv |
| GS-AP-MW-16S | pH | 2/15/2022 13:39 | 11.4 | SU |
| GS-AP-MW-16S | Temperature | 2/15/2022 13:39 | 17.89 | C |
| GS-AP-MW-16S | Turbidity | 2/15/2022 13:39 | 2.01 | NTU |
| GS-AP-MW-16S | Conductivity | 2/15/2022 13:44 | 3611.44 | uS/cm |
| GS-AP-MW-16S | DO | 2/15/2022 13:44 | 2.37 | mg/L |
| GS-AP-MW-16S | Depth to Water Detail | 2/15/2022 13:44 | 58.1 | ft |
| GS-AP-MW-16S | Oxidation Reduction Potention | 2/15/2022 13:44 | -112.66 | mv |
| GS-AP-MW-16S | pH | 2/15/2022 13:44 | 11.47 | SU |
| GS-AP-MW-16S | Temperature | 2/15/2022 13:44 | 17.67 | C |
| GS-AP-MW-16S | Turbidity | 2/15/2022 13:44 | 1.62 | NTU |
| GS-AP-MW-16S | Conductivity | 2/15/2022 13:49 | 3597.32 | uS/cm |
| GS-AP-MW-16S | DO | 2/15/2022 13:49 | 2.33 | mg/L |
| GS-AP-MW-16S | Depth to Water Detail | 2/15/2022 13:49 | 58.18 | ft |
| GS-AP-MW-16S | Oxidation Reduction Potention | 2/15/2022 13:49 | -112.74 | mv |
| GS-AP-MW-16S | pH | 2/15/2022 13:49 | 11.52 | SU |
| GS-AP-MW-16S | Temperature | 2/15/2022 13:49 | 17.44 | C |
| GS-AP-MW-16S | Turbidity | 2/15/2022 13:49 | 1.3 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-17 | Conductivity | 2/14/2022 11:09 | 901.31 | uS/cm |
| GS-AP-MW-17 | DO | 2/14/2022 11:09 | 0.64 | mg/L |
| GS-AP-MW-17 | Depth to Water Detail | 2/14/2022 11:09 | 175.51 | ft |
| GS-AP-MW-17 | Oxidation Reduction Potention | 2/14/2022 11:09 | -91.78 | mv |
| GS-AP-MW-17 | pH | 2/14/2022 11:09 | 7.94 | SU |
| GS-AP-MW-17 | Temperature | 2/14/2022 11:09 | 17.31 | C |
| GS-AP-MW-17 | Turbidity | 2/14/2022 11:09 | 2.46 | NTU |
| GS-AP-MW-17 | Conductivity | 2/14/2022 11:14 | 868.9 | uS/cm |
| GS-AP-MW-17 | DO | 2/14/2022 11:14 | 0.48 | mg/L |
| GS-AP-MW-17 | Depth to Water Detail | 2/14/2022 11:14 | 175.55 | ft |
| GS-AP-MW-17 | Oxidation Reduction Potention | 2/14/2022 11:14 | -124.52 | mv |
| GS-AP-MW-17 | pH | 2/14/2022 11:14 | 8.13 | SU |
| GS-AP-MW-17 | Temperature | 2/14/2022 11:14 | 17.06 | C |
| GS-AP-MW-17 | Turbidity | 2/14/2022 11:14 | 1.41 | NTU |
| GS-AP-MW-17 | Conductivity | 2/14/2022 11:19 | 821.89 | uS/cm |
| GS-AP-MW-17 | DO | 2/14/2022 11:19 | 0.43 | mg/L |
| GS-AP-MW-17 | Depth to Water Detail | 2/14/2022 11:19 | 175.58 | ft |
| GS-AP-MW-17 | Oxidation Reduction Potention | 2/14/2022 11:19 | -137.26 | mv |
| GS-AP-MW-17 | pH | 2/14/2022 11:19 | 8.2 | SU |
| GS-AP-MW-17 | Temperature | 2/14/2022 11:19 | 17.17 | C |
| GS-AP-MW-17 | Turbidity | 2/14/2022 11:19 | 1.27 | NTU |
| GS-AP-MW-17 | Conductivity | 2/14/2022 11:24 | 785.86 | uS/cm |
| GS-AP-MW-17 | DO | 2/14/2022 11:24 | 0.38 | mg/L |
| GS-AP-MW-17 | Depth to Water Detail | 2/14/2022 11:24 | 175.58 | ft |
| GS-AP-MW-17 | Oxidation Reduction Potention | 2/14/2022 11:24 | -144.06 | mv |
| GS-AP-MW-17 | pH | 2/14/2022 11:24 | 8.24 | SU |
| GS-AP-MW-17 | Temperature | 2/14/2022 11:24 | 17.24 | C |
| GS-AP-MW-17 | Turbidity | 2/14/2022 11:24 | 1.3 | NTU |
| GS-AP-MW-17 | Conductivity | 2/14/2022 11:29 | 746.25 | uS/cm |
| GS-AP-MW-17 | DO | 2/14/2022 11:29 | 0.38 | mg/L |
| GS-AP-MW-17 | Depth to Water Detail | 2/14/2022 11:29 | 175.58 | ft |
| GS-AP-MW-17 | Oxidation Reduction Potention | 2/14/2022 11:29 | -148.91 | mv |
| GS-AP-MW-17 | pH | 2/14/2022 11:29 | 8.28 | SU |
| GS-AP-MW-17 | Temperature | 2/14/2022 11:29 | 17.07 | C |
| GS-AP-MW-17 | Turbidity | 2/14/2022 11:29 | 1.1 | NTU |
| GS-AP-MW-17 | Conductivity | 2/14/2022 11:34 | 741.05 | uS/cm |
| GS-AP-MW-17 | DO | 2/14/2022 11:34 | 0.35 | mg/L |
| GS-AP-MW-17 | Depth to Water Detail | 2/14/2022 11:34 | 175.58 | ft |
| GS-AP-MW-17 | Oxidation Reduction Potention | 2/14/2022 11:34 | -152.4 | mv |
| GS-AP-MW-17 | pH | 2/14/2022 11:34 | 8.3 | SU |
| GS-AP-MW-17 | Temperature | 2/14/2022 11:34 | 17.16 | C |
| GS-AP-MW-17 | Turbidity | 2/14/2022 11:34 | 2.63 | NTU |
| GS-AP-MW-17 | Conductivity | 2/14/2022 11:39 | 723.19 | uS/cm |
| GS-AP-MW-17 | DO | 2/14/2022 11:39 | 0.33 | mg/L |
| GS-AP-MW-17 | Depth to Water Detail | 2/14/2022 11:39 | 175.58 | ft |
| GS-AP-MW-17 | Oxidation Reduction Potention | 2/14/2022 11:39 | -155.72 | mv |
| GS-AP-MW-17 | pH | 2/14/2022 11:39 | 8.32 | SU |
| GS-AP-MW-17 | Temperature | 2/14/2022 11:39 | 17.11 | C |
| GS-AP-MW-17 | Turbidity | 2/14/2022 11:39 | 2.15 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-17V | Conductivity | 2/14/2022 12:11 | 587.07 | uS/cm |
| GS-AP-MW-17V | DO | 2/14/2022 12:11 | 0.41 | mg/L |
| GS-AP-MW-17V | Depth to Water Detail | 2/14/2022 12:11 | 111.42 | ft |
| GS-AP-MW-17V | Oxidation Reduction Potential | 2/14/2022 12:11 | -120.18 | mv |
| GS-AP-MW-17V | pH | 2/14/2022 12:11 | 7.33 | SU |
| GS-AP-MW-17V | Temperature | 2/14/2022 12:11 | 17.05 | C |
| GS-AP-MW-17V | Turbidity | 2/14/2022 12:11 | 2.22 | NTU |
| GS-AP-MW-17V | Conductivity | 2/14/2022 12:16 | 572.42 | uS/cm |
| GS-AP-MW-17V | DO | 2/14/2022 12:16 | 0.33 | mg/L |
| GS-AP-MW-17V | Depth to Water Detail | 2/14/2022 12:16 | 114.05 | ft |
| GS-AP-MW-17V | Oxidation Reduction Potential | 2/14/2022 12:16 | -121.03 | mv |
| GS-AP-MW-17V | pH | 2/14/2022 12:16 | 7.32 | SU |
| GS-AP-MW-17V | Temperature | 2/14/2022 12:16 | 17.02 | C |
| GS-AP-MW-17V | Turbidity | 2/14/2022 12:16 | 1.27 | NTU |
| GS-AP-MW-17V | Conductivity | 2/14/2022 12:21 | 551.37 | uS/cm |
| GS-AP-MW-17V | DO | 2/14/2022 12:21 | 0.3 | mg/L |
| GS-AP-MW-17V | Depth to Water Detail | 2/14/2022 12:21 | 116.43 | ft |
| GS-AP-MW-17V | Oxidation Reduction Potential | 2/14/2022 12:21 | -122.19 | mv |
| GS-AP-MW-17V | pH | 2/14/2022 12:21 | 7.33 | SU |
| GS-AP-MW-17V | Temperature | 2/14/2022 12:21 | 16.94 | C |
| GS-AP-MW-17V | Turbidity | 2/14/2022 12:21 | 1.31 | NTU |
| GS-AP-MW-17V | Conductivity | 2/14/2022 12:26 | 534.19 | uS/cm |
| GS-AP-MW-17V | DO | 2/14/2022 12:26 | 0.29 | mg/L |
| GS-AP-MW-17V | Depth to Water Detail | 2/14/2022 12:26 | 118.66 | ft |
| GS-AP-MW-17V | Oxidation Reduction Potential | 2/14/2022 12:26 | -123.27 | mv |
| GS-AP-MW-17V | pH | 2/14/2022 12:26 | 7.34 | SU |
| GS-AP-MW-17V | Temperature | 2/14/2022 12:26 | 16.96 | C |
| GS-AP-MW-17V | Turbidity | 2/14/2022 12:26 | 1.8 | NTU |
| GS-AP-MW-17V | Conductivity | 2/14/2022 12:31 | 547.75 | uS/cm |
| GS-AP-MW-17V | DO | 2/14/2022 12:31 | 0.28 | mg/L |
| GS-AP-MW-17V | Depth to Water Detail | 2/14/2022 12:31 | 120.63 | ft |
| GS-AP-MW-17V | Oxidation Reduction Potential | 2/14/2022 12:31 | -124.56 | mv |
| GS-AP-MW-17V | pH | 2/14/2022 12:31 | 7.35 | SU |
| GS-AP-MW-17V | Temperature | 2/14/2022 12:31 | 16.88 | C |
| GS-AP-MW-17V | Turbidity | 2/14/2022 12:31 | 2.28 | NTU |
| GS-AP-MW-17V | Conductivity | 2/14/2022 12:36 | 538.74 | uS/cm |
| GS-AP-MW-17V | DO | 2/14/2022 12:36 | 0.36 | mg/L |
| GS-AP-MW-17V | Depth to Water Detail | 2/14/2022 12:36 | 121.2 | ft |
| GS-AP-MW-17V | Oxidation Reduction Potential | 2/14/2022 12:36 | -124.72 | mv |
| GS-AP-MW-17V | pH | 2/14/2022 12:36 | 7.37 | SU |
| GS-AP-MW-17V | Temperature | 2/14/2022 12:36 | 16.78 | C |
| GS-AP-MW-17V | Turbidity | 2/14/2022 12:36 | 1.25 | NTU |
| GS-AP-MW-17V | Conductivity | 2/14/2022 12:41 | 554.71 | uS/cm |
| GS-AP-MW-17V | DO | 2/14/2022 12:41 | 0.39 | mg/L |
| GS-AP-MW-17V | Depth to Water Detail | 2/14/2022 12:41 | 121.56 | ft |
| GS-AP-MW-17V | Oxidation Reduction Potential | 2/14/2022 12:41 | -127.67 | mv |
| GS-AP-MW-17V | pH | 2/14/2022 12:41 | 7.4 | SU |
| GS-AP-MW-17V | Temperature | 2/14/2022 12:41 | 16.89 | C |
| GS-AP-MW-17V | Turbidity | 2/14/2022 12:41 | 1.21 | NTU |
| GS-AP-MW-17V | Conductivity | 2/14/2022 12:46 | 539.69 | uS/cm |
| GS-AP-MW-17V | DO | 2/14/2022 12:46 | 0.51 | mg/L |
| GS-AP-MW-17V | Depth to Water Detail | 2/14/2022 12:46 | 121.65 | ft |
| GS-AP-MW-17V | Oxidation Reduction Potential | 2/14/2022 12:46 | -127.95 | mv |
| GS-AP-MW-17V | pH | 2/14/2022 12:46 | 7.41 | SU |
| GS-AP-MW-17V | Temperature | 2/14/2022 12:46 | 16.92 | C |
| GS-AP-MW-17V | Turbidity | 2/14/2022 12:46 | 1.71 | NTU |
| GS-AP-MW-17V | Conductivity | 2/14/2022 12:51 | 533.41 | uS/cm |
| GS-AP-MW-17V | DO | 2/14/2022 12:51 | 0.54 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-17V | Depth to Water Detail | 2/14/2022 12:51 | 121.68 | ft |
| GS-AP-MW-17V | Oxidation Reduction Potention | 2/14/2022 12:51 | -127.99 | mv |
| GS-AP-MW-17V | pH | 2/14/2022 12:51 | 7.43 | SU |
| GS-AP-MW-17V | Temperature | 2/14/2022 12:51 | 16.84 | C |
| GS-AP-MW-17V | Turbidity | 2/14/2022 12:51 | 1.86 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-25HA | Conductivity | 2/16/2022 12:59 | 1442.19 | uS/cm |
| GS-AP-MW-25HA | DO | 2/16/2022 12:59 | 2.44 | mg/L |
| GS-AP-MW-25HA | Depth to Water Detail | 2/16/2022 12:59 | 176.79 | ft |
| GS-AP-MW-25HA | Oxidation Reduction Potention | 2/16/2022 12:59 | -159.08 | mv |
| GS-AP-MW-25HA | pH | 2/16/2022 12:59 | 7.5 | SU |
| GS-AP-MW-25HA | Temperature | 2/16/2022 12:59 | 20.33 | C |
| GS-AP-MW-25HA | Turbidity | 2/16/2022 12:59 | 3.61 | NTU |
| GS-AP-MW-25HA | Conductivity | 2/16/2022 13:04 | 1441.56 | uS/cm |
| GS-AP-MW-25HA | DO | 2/16/2022 13:04 | 1.66 | mg/L |
| GS-AP-MW-25HA | Depth to Water Detail | 2/16/2022 13:04 | 176.96 | ft |
| GS-AP-MW-25HA | Oxidation Reduction Potention | 2/16/2022 13:04 | -241.46 | mv |
| GS-AP-MW-25HA | pH | 2/16/2022 13:04 | 8.16 | SU |
| GS-AP-MW-25HA | Temperature | 2/16/2022 13:04 | 20.15 | C |
| GS-AP-MW-25HA | Turbidity | 2/16/2022 13:04 | 5.24 | NTU |
| GS-AP-MW-25HA | Conductivity | 2/16/2022 13:09 | 1438.08 | uS/cm |
| GS-AP-MW-25HA | DO | 2/16/2022 13:09 | 1.49 | mg/L |
| GS-AP-MW-25HA | Depth to Water Detail | 2/16/2022 13:09 | 177.1 | ft |
| GS-AP-MW-25HA | Oxidation Reduction Potention | 2/16/2022 13:09 | -265.29 | mv |
| GS-AP-MW-25HA | pH | 2/16/2022 13:09 | 8.37 | SU |
| GS-AP-MW-25HA | Temperature | 2/16/2022 13:09 | 19.83 | C |
| GS-AP-MW-25HA | Turbidity | 2/16/2022 13:09 | 4.21 | NTU |
| GS-AP-MW-25HA | Conductivity | 2/16/2022 13:14 | 1445.48 | uS/cm |
| GS-AP-MW-25HA | DO | 2/16/2022 13:14 | 1.66 | mg/L |
| GS-AP-MW-25HA | Depth to Water Detail | 2/16/2022 13:14 | 177.17 | ft |
| GS-AP-MW-25HA | Oxidation Reduction Potention | 2/16/2022 13:14 | -276.86 | mv |
| GS-AP-MW-25HA | pH | 2/16/2022 13:14 | 8.44 | SU |
| GS-AP-MW-25HA | Temperature | 2/16/2022 13:14 | 20.52 | C |
| GS-AP-MW-25HA | Turbidity | 2/16/2022 13:14 | 3.03 | NTU |
| GS-AP-MW-25HA | Conductivity | 2/16/2022 13:19 | 1455.75 | uS/cm |
| GS-AP-MW-25HA | DO | 2/16/2022 13:19 | 1.48 | mg/L |
| GS-AP-MW-25HA | Depth to Water Detail | 2/16/2022 13:19 | 177.2 | ft |
| GS-AP-MW-25HA | Oxidation Reduction Potention | 2/16/2022 13:19 | -284.35 | mv |
| GS-AP-MW-25HA | pH | 2/16/2022 13:19 | 8.5 | SU |
| GS-AP-MW-25HA | Temperature | 2/16/2022 13:19 | 20.83 | C |
| GS-AP-MW-25HA | Turbidity | 2/16/2022 13:19 | 2.96 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36H | Conductivity | 2/14/2022 13:54 | 674.75 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 13:54 | 2.45 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 13:54 | 232.15 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 13:54 | -75.81 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 13:54 | 7.31 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 13:54 | 18.5 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 13:54 | 1.18 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 13:59 | 883.75 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 13:59 | 1.26 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 13:59 | 232.72 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 13:59 | -141.53 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 13:59 | 7.86 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 13:59 | 18.45 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 13:59 | 0.94 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:04 | 1000.51 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:04 | 1.16 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:04 | 233.33 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:04 | -136.08 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:04 | 8.05 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:04 | 18.62 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:04 | 1.04 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:09 | 1038.69 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:09 | 1.08 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:09 | 233.84 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:09 | -134.56 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:09 | 8.11 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:09 | 18.72 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:09 | 1.66 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:14 | 1048.47 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:14 | 1.12 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:14 | 234.26 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:14 | -133.56 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:14 | 8.15 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:14 | 19.01 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:14 | 2.02 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:19 | 1055.14 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:19 | 0.98 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:19 | 234.75 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:19 | -134.43 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:19 | 8.17 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:19 | 18.75 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:19 | 1.96 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:24 | 1052.12 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:24 | 0.98 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:24 | 235.14 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:24 | -132.47 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:24 | 8.14 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:24 | 18.95 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:24 | 1.84 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:29 | 1055.82 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:29 | 0.98 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:29 | 235.43 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:29 | -135.38 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:29 | 8.19 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:29 | 18.94 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:29 | 1.14 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:34 | 1052.03 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:34 | 0.97 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:34 | 235.82 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:34 | -134.82 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:34 | 8.17 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:34 | 18.79 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:34 | 1.23 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:39 | 1037.97 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:39 | 0.97 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:39 | 236.11 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:39 | -136.14 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:39 | 8.19 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:39 | 18.84 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:39 | 0.92 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:44 | 1033.89 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:44 | 0.92 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:44 | 236.3 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:44 | -135.56 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:44 | 8.18 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:44 | 18.83 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:44 | 2.08 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:49 | 1026.74 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:49 | 0.94 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:49 | 236.6 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:49 | -136.54 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:49 | 8.2 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:49 | 18.92 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:49 | 2.6 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:54 | 1014.68 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:54 | 0.9 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:54 | 236.92 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:54 | -136.3 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:54 | 8.2 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:54 | 18.7 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:54 | 3.21 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 14:59 | 993.75 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 14:59 | 0.89 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 14:59 | 237.09 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 14:59 | -137.46 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 14:59 | 8.21 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 14:59 | 18.85 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 14:59 | 2.88 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 15:04 | 971.51 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 15:04 | 0.88 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 15:04 | 237.28 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 15:04 | -137.66 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 15:04 | 8.22 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 15:04 | 18.79 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 15:04 | 2.07 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 15:09 | 952.46 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 15:09 | 0.84 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 15:09 | 237.45 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 15:09 | -137.04 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 15:09 | 8.2 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 15:09 | 18.86 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 15:09 | 1.86 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 15:14 | 938.96 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 15:14 | 0.84 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 15:14 | 237.6 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 15:14 | -138.64 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 15:14 | 8.23 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 15:14 | 18.74 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 15:14 | 1.91 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 15:19 | 904.19 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 15:19 | 0.82 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 15:19 | 237.75 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 15:19 | -137.34 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 15:19 | 8.21 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 15:19 | 18.51 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 15:19 | 2.01 | NTU |
| GS-AP-MW-36H | Conductivity | 2/14/2022 15:24 | 897.68 | uS/cm |
| GS-AP-MW-36H | DO | 2/14/2022 15:24 | 0.83 | mg/L |
| GS-AP-MW-36H | Depth to Water Detail | 2/14/2022 15:24 | 237.87 | ft |
| GS-AP-MW-36H | Oxidation Reduction Potention | 2/14/2022 15:24 | -137.66 | mv |
| GS-AP-MW-36H | pH | 2/14/2022 15:24 | 8.22 | SU |
| GS-AP-MW-36H | Temperature | 2/14/2022 15:24 | 18.68 | C |
| GS-AP-MW-36H | Turbidity | 2/14/2022 15:24 | 2.2 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-PZ-16 | Conductivity | 2/15/2022 10:20 | 656.05 | uS/cm |
| GS-AP-PZ-16 | DO | 2/15/2022 10:20 | 1.04 | mg/L |
| GS-AP-PZ-16 | Depth to Water Detail | 2/15/2022 10:20 | 173.24 | ft |
| GS-AP-PZ-16 | Oxidation Reduction Potention | 2/15/2022 10:20 | -57.74 | mv |
| GS-AP-PZ-16 | pH | 2/15/2022 10:20 | 10.74 | SU |
| GS-AP-PZ-16 | Temperature | 2/15/2022 10:20 | 16.81 | C |
| GS-AP-PZ-16 | Turbidity | 2/15/2022 10:20 | 11.16 | NTU |
| GS-AP-PZ-16 | Conductivity | 2/15/2022 10:25 | 657.25 | uS/cm |
| GS-AP-PZ-16 | DO | 2/15/2022 10:25 | 1.28 | mg/L |
| GS-AP-PZ-16 | Depth to Water Detail | 2/15/2022 10:25 | 173.24 | ft |
| GS-AP-PZ-16 | Oxidation Reduction Potention | 2/15/2022 10:25 | -76.44 | mv |
| GS-AP-PZ-16 | pH | 2/15/2022 10:25 | 10.67 | SU |
| GS-AP-PZ-16 | Temperature | 2/15/2022 10:25 | 17.46 | C |
| GS-AP-PZ-16 | Turbidity | 2/15/2022 10:25 | 10.43 | NTU |
| GS-AP-PZ-16 | Conductivity | 2/15/2022 10:30 | 644.69 | uS/cm |
| GS-AP-PZ-16 | DO | 2/15/2022 10:30 | 1.99 | mg/L |
| GS-AP-PZ-16 | Depth to Water Detail | 2/15/2022 10:30 | 173.24 | ft |
| GS-AP-PZ-16 | Oxidation Reduction Potention | 2/15/2022 10:30 | -89.43 | mv |
| GS-AP-PZ-16 | pH | 2/15/2022 10:30 | 10.68 | SU |
| GS-AP-PZ-16 | Temperature | 2/15/2022 10:30 | 17.13 | C |
| GS-AP-PZ-16 | Turbidity | 2/15/2022 10:30 | 10.29 | NTU |
| GS-AP-PZ-16 | Conductivity | 2/15/2022 10:35 | 624.82 | uS/cm |
| GS-AP-PZ-16 | DO | 2/15/2022 10:35 | 0.84 | mg/L |
| GS-AP-PZ-16 | Depth to Water Detail | 2/15/2022 10:35 | 173.24 | ft |
| GS-AP-PZ-16 | Oxidation Reduction Potention | 2/15/2022 10:35 | -92.43 | mv |
| GS-AP-PZ-16 | pH | 2/15/2022 10:35 | 10.13 | SU |
| GS-AP-PZ-16 | Temperature | 2/15/2022 10:35 | 16.82 | C |
| GS-AP-PZ-16 | Turbidity | 2/15/2022 10:35 | 8.66 | NTU |
| GS-AP-PZ-16 | Conductivity | 2/15/2022 10:40 | 624.24 | uS/cm |
| GS-AP-PZ-16 | DO | 2/15/2022 10:40 | 0.63 | mg/L |
| GS-AP-PZ-16 | Depth to Water Detail | 2/15/2022 10:40 | 173.24 | ft |
| GS-AP-PZ-16 | Oxidation Reduction Potention | 2/15/2022 10:40 | -97.26 | mv |
| GS-AP-PZ-16 | pH | 2/15/2022 10:40 | 9.72 | SU |
| GS-AP-PZ-16 | Temperature | 2/15/2022 10:40 | 16.85 | C |
| GS-AP-PZ-16 | Turbidity | 2/15/2022 10:40 | 5.65 | NTU |
| GS-AP-PZ-16 | Conductivity | 2/15/2022 10:45 | 622.03 | uS/cm |
| GS-AP-PZ-16 | DO | 2/15/2022 10:45 | 0.56 | mg/L |
| GS-AP-PZ-16 | Depth to Water Detail | 2/15/2022 10:45 | 173.24 | ft |
| GS-AP-PZ-16 | Oxidation Reduction Potention | 2/15/2022 10:45 | -104.27 | mv |
| GS-AP-PZ-16 | pH | 2/15/2022 10:45 | 9.51 | SU |
| GS-AP-PZ-16 | Temperature | 2/15/2022 10:45 | 16.93 | C |
| GS-AP-PZ-16 | Turbidity | 2/15/2022 10:45 | 4.63 | NTU |
| GS-AP-PZ-16 | Conductivity | 2/15/2022 10:50 | 615.85 | uS/cm |
| GS-AP-PZ-16 | DO | 2/15/2022 10:50 | 0.5 | mg/L |
| GS-AP-PZ-16 | Depth to Water Detail | 2/15/2022 10:50 | 173.24 | ft |
| GS-AP-PZ-16 | Oxidation Reduction Potention | 2/15/2022 10:50 | -109.98 | mv |
| GS-AP-PZ-16 | pH | 2/15/2022 10:50 | 9.37 | SU |
| GS-AP-PZ-16 | Temperature | 2/15/2022 10:50 | 16.86 | C |
| GS-AP-PZ-16 | Turbidity | 2/15/2022 10:50 | 4.16 | NTU |
| GS-AP-PZ-16 | Conductivity | 2/15/2022 10:55 | 612.66 | uS/cm |
| GS-AP-PZ-16 | DO | 2/15/2022 10:55 | 0.78 | mg/L |
| GS-AP-PZ-16 | Depth to Water Detail | 2/15/2022 10:55 | 173.24 | ft |
| GS-AP-PZ-16 | Oxidation Reduction Potention | 2/15/2022 10:55 | -115.51 | mv |
| GS-AP-PZ-16 | pH | 2/15/2022 10:55 | 9.3 | SU |
| GS-AP-PZ-16 | Temperature | 2/15/2022 10:55 | 16.89 | C |
| GS-AP-PZ-16 | Turbidity | 2/15/2022 10:55 | 4.4 | NTU |
| GS-AP-PZ-16 | Conductivity | 2/15/2022 11:00 | 609.18 | uS/cm |
| GS-AP-PZ-16 | DO | 2/15/2022 11:00 | 0.87 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-PZ-16 | Depth to Water Detail | 2/15/2022 11:00 | 173.24 | ft |
| GS-AP-PZ-16 | Oxidation Reduction Potention | 2/15/2022 11:00 | -118.21 | mv |
| GS-AP-PZ-16 | pH | 2/15/2022 11:00 | 9.28 | SU |
| GS-AP-PZ-16 | Temperature | 2/15/2022 11:00 | 17.02 | C |
| GS-AP-PZ-16 | Turbidity | 2/15/2022 11:00 | 3.83 | NTU |
| GS-AP-PZ-16 | Conductivity | 2/15/2022 11:05 | 595.35 | uS/cm |
| GS-AP-PZ-16 | DO | 2/15/2022 11:05 | 0.95 | mg/L |
| GS-AP-PZ-16 | Depth to Water Detail | 2/15/2022 11:05 | 173.24 | ft |
| GS-AP-PZ-16 | Oxidation Reduction Potention | 2/15/2022 11:05 | -121.72 | mv |
| GS-AP-PZ-16 | pH | 2/15/2022 11:05 | 9.34 | SU |
| GS-AP-PZ-16 | Temperature | 2/15/2022 11:05 | 17.09 | C |
| GS-AP-PZ-16 | Turbidity | 2/15/2022 11:05 | 3.18 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-PZ-22 | Conductivity | 2/14/2022 10:03 | 726.32 | uS/cm |
| GS-AP-PZ-22 | DO | 2/14/2022 10:03 | 0.51 | mg/L |
| GS-AP-PZ-22 | Depth to Water Detail | 2/14/2022 10:03 | 242.88 | ft |
| GS-AP-PZ-22 | Oxidation Reduction Potention | 2/14/2022 10:03 | -192.62 | mv |
| GS-AP-PZ-22 | pH | 2/14/2022 10:03 | 7.73 | SU |
| GS-AP-PZ-22 | Temperature | 2/14/2022 10:03 | 16.94 | C |
| GS-AP-PZ-22 | Turbidity | 2/14/2022 10:03 | 2.56 | NTU |
| GS-AP-PZ-22 | Conductivity | 2/14/2022 10:08 | 727.6 | uS/cm |
| GS-AP-PZ-22 | DO | 2/14/2022 10:08 | 0.44 | mg/L |
| GS-AP-PZ-22 | Depth to Water Detail | 2/14/2022 10:08 | 242.88 | ft |
| GS-AP-PZ-22 | Oxidation Reduction Potention | 2/14/2022 10:08 | -168.06 | mv |
| GS-AP-PZ-22 | pH | 2/14/2022 10:08 | 7.51 | SU |
| GS-AP-PZ-22 | Temperature | 2/14/2022 10:08 | 16.93 | C |
| GS-AP-PZ-22 | Turbidity | 2/14/2022 10:08 | 2.03 | NTU |
| GS-AP-PZ-22 | Conductivity | 2/14/2022 10:13 | 723.55 | uS/cm |
| GS-AP-PZ-22 | DO | 2/14/2022 10:13 | 0.39 | mg/L |
| GS-AP-PZ-22 | Depth to Water Detail | 2/14/2022 10:13 | 242.88 | ft |
| GS-AP-PZ-22 | Oxidation Reduction Potention | 2/14/2022 10:13 | -158.8 | mv |
| GS-AP-PZ-22 | pH | 2/14/2022 10:13 | 7.46 | SU |
| GS-AP-PZ-22 | Temperature | 2/14/2022 10:13 | 17.09 | C |
| GS-AP-PZ-22 | Turbidity | 2/14/2022 10:13 | 1.52 | NTU |
| GS-AP-PZ-22 | Conductivity | 2/14/2022 10:18 | 714.25 | uS/cm |
| GS-AP-PZ-22 | DO | 2/14/2022 10:18 | 0.36 | mg/L |
| GS-AP-PZ-22 | Depth to Water Detail | 2/14/2022 10:18 | 242.88 | ft |
| GS-AP-PZ-22 | Oxidation Reduction Potention | 2/14/2022 10:18 | -150.77 | mv |
| GS-AP-PZ-22 | pH | 2/14/2022 10:18 | 7.4 | SU |
| GS-AP-PZ-22 | Temperature | 2/14/2022 10:18 | 17.01 | C |
| GS-AP-PZ-22 | Turbidity | 2/14/2022 10:18 | 1.98 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-03V | Conductivity | 2/23/2022 12:16 | 1902.53 | uS/cm |
| GS-AP-MW-03V | DO | 2/23/2022 12:16 | 1.95 | mg/L |
| GS-AP-MW-03V | Depth to Water Detail | 2/23/2022 12:16 | 153.14 | ft |
| GS-AP-MW-03V | Oxidation Reduction Potention | 2/23/2022 12:16 | -100.48 | mv |
| GS-AP-MW-03V | pH | 2/23/2022 12:16 | 7.46 | SU |
| GS-AP-MW-03V | Temperature | 2/23/2022 12:16 | 16.26 | C |
| GS-AP-MW-03V | Turbidity | 2/23/2022 12:16 | 15.8 | NTU |
| GS-AP-MW-03V | Conductivity | 2/23/2022 12:21 | 1917.34 | uS/cm |
| GS-AP-MW-03V | DO | 2/23/2022 12:21 | 1.4 | mg/L |
| GS-AP-MW-03V | Depth to Water Detail | 2/23/2022 12:21 | 153.36 | ft |
| GS-AP-MW-03V | Oxidation Reduction Potention | 2/23/2022 12:21 | -100.5 | mv |
| GS-AP-MW-03V | pH | 2/23/2022 12:21 | 7.45 | SU |
| GS-AP-MW-03V | Temperature | 2/23/2022 12:21 | 16.16 | C |
| GS-AP-MW-03V | Turbidity | 2/23/2022 12:21 | 13.4 | NTU |
| GS-AP-MW-03V | Conductivity | 2/23/2022 12:26 | 1920.31 | uS/cm |
| GS-AP-MW-03V | DO | 2/23/2022 12:26 | 1.26 | mg/L |
| GS-AP-MW-03V | Depth to Water Detail | 2/23/2022 12:26 | 153.6 | ft |
| GS-AP-MW-03V | Oxidation Reduction Potention | 2/23/2022 12:26 | -98.67 | mv |
| GS-AP-MW-03V | pH | 2/23/2022 12:26 | 7.45 | SU |
| GS-AP-MW-03V | Temperature | 2/23/2022 12:26 | 16.2 | C |
| GS-AP-MW-03V | Turbidity | 2/23/2022 12:26 | 5.41 | NTU |
| GS-AP-MW-03V | Conductivity | 2/23/2022 12:31 | 1907.87 | uS/cm |
| GS-AP-MW-03V | DO | 2/23/2022 12:31 | 1.15 | mg/L |
| GS-AP-MW-03V | Depth to Water Detail | 2/23/2022 12:31 | 153.8 | ft |
| GS-AP-MW-03V | Oxidation Reduction Potention | 2/23/2022 12:31 | -99.23 | mv |
| GS-AP-MW-03V | pH | 2/23/2022 12:31 | 7.45 | SU |
| GS-AP-MW-03V | Temperature | 2/23/2022 12:31 | 16.14 | C |
| GS-AP-MW-03V | Turbidity | 2/23/2022 12:31 | 3.96 | NTU |
| GS-AP-MW-03V | Conductivity | 2/23/2022 12:36 | 1872.58 | uS/cm |
| GS-AP-MW-03V | DO | 2/23/2022 12:36 | 1.09 | mg/L |
| GS-AP-MW-03V | Depth to Water Detail | 2/23/2022 12:36 | 153.96 | ft |
| GS-AP-MW-03V | Oxidation Reduction Potention | 2/23/2022 12:36 | -103.67 | mv |
| GS-AP-MW-03V | pH | 2/23/2022 12:36 | 7.45 | SU |
| GS-AP-MW-03V | Temperature | 2/23/2022 12:36 | 16.12 | C |
| GS-AP-MW-03V | Turbidity | 2/23/2022 12:36 | 3.51 | NTU |
| GS-AP-MW-03V | Conductivity | 2/23/2022 12:41 | 1839.1 | uS/cm |
| GS-AP-MW-03V | DO | 2/23/2022 12:41 | 1.05 | mg/L |
| GS-AP-MW-03V | Depth to Water Detail | 2/23/2022 12:41 | 154.13 | ft |
| GS-AP-MW-03V | Oxidation Reduction Potention | 2/23/2022 12:41 | -107.42 | mv |
| GS-AP-MW-03V | pH | 2/23/2022 12:41 | 7.45 | SU |
| GS-AP-MW-03V | Temperature | 2/23/2022 12:41 | 16.16 | C |
| GS-AP-MW-03V | Turbidity | 2/23/2022 12:41 | 2.66 | NTU |
| GS-AP-MW-03V | Conductivity | 2/23/2022 12:46 | 1813.51 | uS/cm |
| GS-AP-MW-03V | DO | 2/23/2022 12:46 | 1.02 | mg/L |
| GS-AP-MW-03V | Depth to Water Detail | 2/23/2022 12:46 | 154.25 | ft |
| GS-AP-MW-03V | Oxidation Reduction Potention | 2/23/2022 12:46 | -109.3 | mv |
| GS-AP-MW-03V | pH | 2/23/2022 12:46 | 7.45 | SU |
| GS-AP-MW-03V | Temperature | 2/23/2022 12:46 | 16.16 | C |
| GS-AP-MW-03V | Turbidity | 2/23/2022 12:46 | 3.14 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-18R | Conductivity | 2/22/2022 12:59 | 201.48 | uS/cm |
| GS-AP-MW-18R | DO | 2/22/2022 12:59 | 0.42 | mg/L |
| GS-AP-MW-18R | Depth to Water Detail | 2/22/2022 12:59 | 40.65 | ft |
| GS-AP-MW-18R | Oxidation Reduction Potention | 2/22/2022 12:59 | -54.97 | mv |
| GS-AP-MW-18R | pH | 2/22/2022 12:59 | 6.36 | SU |
| GS-AP-MW-18R | Temperature | 2/22/2022 12:59 | 17.24 | C |
| GS-AP-MW-18R | Turbidity | 2/22/2022 12:59 | 57.9 | NTU |
| GS-AP-MW-18R | Conductivity | 2/22/2022 13:04 | 196.21 | uS/cm |
| GS-AP-MW-18R | DO | 2/22/2022 13:04 | 0.36 | mg/L |
| GS-AP-MW-18R | Depth to Water Detail | 2/22/2022 13:04 | 40.65 | ft |
| GS-AP-MW-18R | Oxidation Reduction Potention | 2/22/2022 13:04 | -41.36 | mv |
| GS-AP-MW-18R | pH | 2/22/2022 13:04 | 6.23 | SU |
| GS-AP-MW-18R | Temperature | 2/22/2022 13:04 | 17.28 | C |
| GS-AP-MW-18R | Turbidity | 2/22/2022 13:04 | 15 | NTU |
| GS-AP-MW-18R | Conductivity | 2/22/2022 13:09 | 197.02 | uS/cm |
| GS-AP-MW-18R | DO | 2/22/2022 13:09 | 0.34 | mg/L |
| GS-AP-MW-18R | Depth to Water Detail | 2/22/2022 13:09 | 40.65 | ft |
| GS-AP-MW-18R | Oxidation Reduction Potention | 2/22/2022 13:09 | -38.39 | mv |
| GS-AP-MW-18R | pH | 2/22/2022 13:09 | 6.24 | SU |
| GS-AP-MW-18R | Temperature | 2/22/2022 13:09 | 17.2 | C |
| GS-AP-MW-18R | Turbidity | 2/22/2022 13:09 | 11.5 | NTU |
| GS-AP-MW-18R | Conductivity | 2/22/2022 13:14 | 196.71 | uS/cm |
| GS-AP-MW-18R | DO | 2/22/2022 13:14 | 0.32 | mg/L |
| GS-AP-MW-18R | Depth to Water Detail | 2/22/2022 13:14 | 40.65 | ft |
| GS-AP-MW-18R | Oxidation Reduction Potention | 2/22/2022 13:14 | -37.85 | mv |
| GS-AP-MW-18R | pH | 2/22/2022 13:14 | 6.26 | SU |
| GS-AP-MW-18R | Temperature | 2/22/2022 13:14 | 17.25 | C |
| GS-AP-MW-18R | Turbidity | 2/22/2022 13:14 | 10.83 | NTU |
| GS-AP-MW-18R | Conductivity | 2/22/2022 13:19 | 196.92 | uS/cm |
| GS-AP-MW-18R | DO | 2/22/2022 13:19 | 0.31 | mg/L |
| GS-AP-MW-18R | Depth to Water Detail | 2/22/2022 13:19 | 40.65 | ft |
| GS-AP-MW-18R | Oxidation Reduction Potention | 2/22/2022 13:19 | -35.52 | mv |
| GS-AP-MW-18R | pH | 2/22/2022 13:19 | 6.23 | SU |
| GS-AP-MW-18R | Temperature | 2/22/2022 13:19 | 17.3 | C |
| GS-AP-MW-18R | Turbidity | 2/22/2022 13:19 | 8.97 | NTU |
| GS-AP-MW-18R | Conductivity | 2/22/2022 13:24 | 197.38 | uS/cm |
| GS-AP-MW-18R | DO | 2/22/2022 13:24 | 0.3 | mg/L |
| GS-AP-MW-18R | Depth to Water Detail | 2/22/2022 13:24 | 40.65 | ft |
| GS-AP-MW-18R | Oxidation Reduction Potention | 2/22/2022 13:24 | -37.35 | mv |
| GS-AP-MW-18R | pH | 2/22/2022 13:24 | 6.28 | SU |
| GS-AP-MW-18R | Temperature | 2/22/2022 13:24 | 17.3 | C |
| GS-AP-MW-18R | Turbidity | 2/22/2022 13:24 | 7.48 | NTU |
| GS-AP-MW-18R | Conductivity | 2/22/2022 13:29 | 196.93 | uS/cm |
| GS-AP-MW-18R | DO | 2/22/2022 13:29 | 0.31 | mg/L |
| GS-AP-MW-18R | Depth to Water Detail | 2/22/2022 13:29 | 40.65 | ft |
| GS-AP-MW-18R | Oxidation Reduction Potention | 2/22/2022 13:29 | -37.78 | mv |
| GS-AP-MW-18R | pH | 2/22/2022 13:29 | 6.3 | SU |
| GS-AP-MW-18R | Temperature | 2/22/2022 13:29 | 17.31 | C |
| GS-AP-MW-18R | Turbidity | 2/22/2022 13:29 | 6.52 | NTU |
| GS-AP-MW-18R | Conductivity | 2/22/2022 13:34 | 197.08 | uS/cm |
| GS-AP-MW-18R | DO | 2/22/2022 13:34 | 0.3 | mg/L |
| GS-AP-MW-18R | Depth to Water Detail | 2/22/2022 13:34 | 40.65 | ft |
| GS-AP-MW-18R | Oxidation Reduction Potention | 2/22/2022 13:34 | -35.19 | mv |
| GS-AP-MW-18R | pH | 2/22/2022 13:34 | 6.25 | SU |
| GS-AP-MW-18R | Temperature | 2/22/2022 13:34 | 17.3 | C |
| GS-AP-MW-18R | Turbidity | 2/22/2022 13:34 | 5.46 | NTU |
| GS-AP-MW-18R | Conductivity | 2/22/2022 13:39 | 198.06 | uS/cm |
| GS-AP-MW-18R | DO | 2/22/2022 13:39 | 0.29 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-18R | Depth to Water Detail | 2/22/2022 13:39 | 40.65 | ft |
| GS-AP-MW-18R | Oxidation Reduction Potention | 2/22/2022 13:39 | -36.96 | mv |
| GS-AP-MW-18R | pH | 2/22/2022 13:39 | 6.29 | SU |
| GS-AP-MW-18R | Temperature | 2/22/2022 13:39 | 17.31 | C |
| GS-AP-MW-18R | Turbidity | 2/22/2022 13:39 | 4.74 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-18VR | Conductivity | 2/22/2022 14:37 | 539.46 | uS/cm |
| GS-AP-MW-18VR | DO | 2/22/2022 14:37 | 0.7 | mg/L |
| GS-AP-MW-18VR | Depth to Water Detail | 2/22/2022 14:37 | 169.3 | ft |
| GS-AP-MW-18VR | Oxidation Reduction Potention | 2/22/2022 14:37 | -123.49 | mv |
| GS-AP-MW-18VR | pH | 2/22/2022 14:37 | 7.37 | SU |
| GS-AP-MW-18VR | Temperature | 2/22/2022 14:37 | 17.55 | C |
| GS-AP-MW-18VR | Turbidity | 2/22/2022 14:37 | 5.39 | NTU |
| GS-AP-MW-18VR | Conductivity | 2/22/2022 14:42 | 515.76 | uS/cm |
| GS-AP-MW-18VR | DO | 2/22/2022 14:42 | 0.48 | mg/L |
| GS-AP-MW-18VR | Depth to Water Detail | 2/22/2022 14:42 | 169.38 | ft |
| GS-AP-MW-18VR | Oxidation Reduction Potention | 2/22/2022 14:42 | -146.42 | mv |
| GS-AP-MW-18VR | pH | 2/22/2022 14:42 | 7.53 | SU |
| GS-AP-MW-18VR | Temperature | 2/22/2022 14:42 | 17.47 | C |
| GS-AP-MW-18VR | Turbidity | 2/22/2022 14:42 | 2.8 | NTU |
| GS-AP-MW-18VR | Conductivity | 2/22/2022 14:47 | 547.14 | uS/cm |
| GS-AP-MW-18VR | DO | 2/22/2022 14:47 | 0.49 | mg/L |
| GS-AP-MW-18VR | Depth to Water Detail | 2/22/2022 14:47 | 169.38 | ft |
| GS-AP-MW-18VR | Oxidation Reduction Potention | 2/22/2022 14:47 | -152.96 | mv |
| GS-AP-MW-18VR | pH | 2/22/2022 14:47 | 7.63 | SU |
| GS-AP-MW-18VR | Temperature | 2/22/2022 14:47 | 17.58 | C |
| GS-AP-MW-18VR | Turbidity | 2/22/2022 14:47 | 3.02 | NTU |
| GS-AP-MW-18VR | Conductivity | 2/22/2022 14:52 | 498.35 | uS/cm |
| GS-AP-MW-18VR | DO | 2/22/2022 14:52 | 0.39 | mg/L |
| GS-AP-MW-18VR | Depth to Water Detail | 2/22/2022 14:52 | 169.38 | ft |
| GS-AP-MW-18VR | Oxidation Reduction Potention | 2/22/2022 14:52 | -163.52 | mv |
| GS-AP-MW-18VR | pH | 2/22/2022 14:52 | 7.7 | SU |
| GS-AP-MW-18VR | Temperature | 2/22/2022 14:52 | 17.58 | C |
| GS-AP-MW-18VR | Turbidity | 2/22/2022 14:52 | 3.25 | NTU |
| GS-AP-MW-18VR | Conductivity | 2/22/2022 14:57 | 491.71 | uS/cm |
| GS-AP-MW-18VR | DO | 2/22/2022 14:57 | 0.43 | mg/L |
| GS-AP-MW-18VR | Depth to Water Detail | 2/22/2022 14:57 | 169.38 | ft |
| GS-AP-MW-18VR | Oxidation Reduction Potention | 2/22/2022 14:57 | -165.49 | mv |
| GS-AP-MW-18VR | pH | 2/22/2022 14:57 | 7.73 | SU |
| GS-AP-MW-18VR | Temperature | 2/22/2022 14:57 | 17.45 | C |
| GS-AP-MW-18VR | Turbidity | 2/22/2022 14:57 | 3.29 | NTU |
| GS-AP-MW-18VR | Conductivity | 2/22/2022 15:02 | 473.33 | uS/cm |
| GS-AP-MW-18VR | DO | 2/22/2022 15:02 | 0.59 | mg/L |
| GS-AP-MW-18VR | Depth to Water Detail | 2/22/2022 15:02 | 169.38 | ft |
| GS-AP-MW-18VR | Oxidation Reduction Potention | 2/22/2022 15:02 | -163.23 | mv |
| GS-AP-MW-18VR | pH | 2/22/2022 15:02 | 7.83 | SU |
| GS-AP-MW-18VR | Temperature | 2/22/2022 15:02 | 17.46 | C |
| GS-AP-MW-18VR | Turbidity | 2/22/2022 15:02 | 3.18 | NTU |
| GS-AP-MW-18VR | Conductivity | 2/22/2022 15:07 | 478.09 | uS/cm |
| GS-AP-MW-18VR | DO | 2/22/2022 15:07 | 0.66 | mg/L |
| GS-AP-MW-18VR | Depth to Water Detail | 2/22/2022 15:07 | 169.38 | ft |
| GS-AP-MW-18VR | Oxidation Reduction Potention | 2/22/2022 15:07 | -164.68 | mv |
| GS-AP-MW-18VR | pH | 2/22/2022 15:07 | 7.92 | SU |
| GS-AP-MW-18VR | Temperature | 2/22/2022 15:07 | 17.52 | C |
| GS-AP-MW-18VR | Turbidity | 2/22/2022 15:07 | 3.1 | NTU |
| GS-AP-MW-18VR | Conductivity | 2/22/2022 15:12 | 482.09 | uS/cm |
| GS-AP-MW-18VR | DO | 2/22/2022 15:12 | 0.71 | mg/L |
| GS-AP-MW-18VR | Depth to Water Detail | 2/22/2022 15:12 | 169.38 | ft |
| GS-AP-MW-18VR | Oxidation Reduction Potention | 2/22/2022 15:12 | -164.83 | mv |
| GS-AP-MW-18VR | pH | 2/22/2022 15:12 | 7.88 | SU |
| GS-AP-MW-18VR | Temperature | 2/22/2022 15:12 | 17.35 | C |
| GS-AP-MW-18VR | Turbidity | 2/22/2022 15:12 | 3.16 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:00 | 4081.38 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:00 | 0.24 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:00 | 170.84 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potential | 2/22/2022 11:00 | -165.44 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:00 | 7.43 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:00 | 17.04 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:00 | 3.27 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:05 | 1398.65 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:05 | 0.27 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:05 | 174.18 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potential | 2/22/2022 11:05 | -176.79 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:05 | 7.8 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:05 | 16.97 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:05 | 3.25 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:10 | 1534.83 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:10 | 0.26 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:10 | 176.98 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potential | 2/22/2022 11:10 | -174.9 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:10 | 7.79 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:10 | 17.04 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:10 | 2.81 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:15 | 1729.73 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:15 | 0.24 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:15 | 180.1 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potential | 2/22/2022 11:15 | -176.07 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:15 | 7.75 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:15 | 17.03 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:15 | 2.55 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:20 | 1816.53 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:20 | 0.21 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:20 | 183.03 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potential | 2/22/2022 11:20 | -180.93 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:20 | 7.76 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:20 | 17.04 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:20 | 2.27 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:25 | 1806.17 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:25 | 0.24 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:25 | 185.02 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potential | 2/22/2022 11:25 | -184.59 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:25 | 7.77 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:25 | 17.06 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:25 | 2.24 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:30 | 1785.51 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:30 | 0.26 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:30 | 186.03 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potential | 2/22/2022 11:30 | -188.04 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:30 | 7.78 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:30 | 17.07 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:30 | 1.98 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:35 | 1876.47 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:35 | 0.32 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:35 | 186.93 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potential | 2/22/2022 11:35 | -190.15 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:35 | 7.78 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:35 | 17.1 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:35 | 2.08 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:40 | 2038.13 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:40 | 0.34 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:40 | 187.12 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potention | 2/22/2022 11:40 | -192.15 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:40 | 7.76 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:40 | 17.15 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:40 | 2.36 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:45 | 2128.95 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:45 | 0.32 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:45 | 187.31 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potention | 2/22/2022 11:45 | -197.67 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:45 | 7.78 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:45 | 17.12 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:45 | 2.12 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:50 | 2265.86 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:50 | 0.33 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:50 | 187.46 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potention | 2/22/2022 11:50 | -201.63 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:50 | 7.77 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:50 | 17.07 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:50 | 2 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 11:55 | 2268.3 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 11:55 | 0.31 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 11:55 | 187.6 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potention | 2/22/2022 11:55 | -206.84 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 11:55 | 7.8 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 11:55 | 17.14 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 11:55 | 2.14 | NTU |
| GS-AP-MW-27HR | Conductivity | 2/22/2022 12:00 | 2186.31 | uS/cm |
| GS-AP-MW-27HR | DO | 2/22/2022 12:00 | 0.29 | mg/L |
| GS-AP-MW-27HR | Depth to Water Detail | 2/22/2022 12:00 | 187.73 | ft |
| GS-AP-MW-27HR | Oxidation Reduction Potention | 2/22/2022 12:00 | -210.32 | mv |
| GS-AP-MW-27HR | pH | 2/22/2022 12:00 | 7.83 | SU |
| GS-AP-MW-27HR | Temperature | 2/22/2022 12:00 | 17.13 | C |
| GS-AP-MW-27HR | Turbidity | 2/22/2022 12:00 | 2.34 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36V | Conductivity | 2/22/2022 8:33 | 2415.74 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 8:33 | 0.66 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 8:33 | 250.92 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potention | 2/22/2022 8:33 | -54.99 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 8:33 | 7.36 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 8:33 | 17.24 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 8:33 | 4.05 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 8:38 | 2414.52 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 8:38 | 0.48 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 8:38 | 254.84 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potention | 2/22/2022 8:38 | -72.45 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 8:38 | 7.34 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 8:38 | 17.22 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 8:38 | 2.97 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 8:43 | 2393.2 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 8:43 | 0.4 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 8:43 | 258.3 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potention | 2/22/2022 8:43 | -82.53 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 8:43 | 7.37 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 8:43 | 17.26 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 8:43 | 2.55 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 8:48 | 2345.61 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 8:48 | 0.43 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 8:48 | 262.38 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potention | 2/22/2022 8:48 | -88.13 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 8:48 | 7.36 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 8:48 | 17.25 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 8:48 | 2.34 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 8:53 | 2308.2 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 8:53 | 0.35 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 8:53 | 265.44 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potention | 2/22/2022 8:53 | -97.18 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 8:53 | 7.38 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 8:53 | 17.27 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 8:53 | 3.85 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 8:58 | 2201.22 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 8:58 | 0.29 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 8:58 | 269.42 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potention | 2/22/2022 8:58 | -104.82 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 8:58 | 7.38 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 8:58 | 17.26 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 8:58 | 3.44 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:03 | 1975 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:03 | 0.27 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:03 | 272.66 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potention | 2/22/2022 9:03 | -110.94 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:03 | 7.39 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:03 | 17.27 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:03 | 3.21 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:08 | 1690.7 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:08 | 0.25 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:08 | 276.22 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potention | 2/22/2022 9:08 | -118 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:08 | 7.39 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:08 | 17.27 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:08 | 2.91 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:13 | 1622.98 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:13 | 0.23 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:13 | 279.31 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 9:13 | -123.42 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:13 | 7.37 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:13 | 17.27 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:13 | 2.95 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:18 | 1529.3 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:18 | 0.23 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:18 | 282.44 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 9:18 | -129.86 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:18 | 7.39 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:18 | 17.27 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:18 | 2.36 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:23 | 1475.38 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:23 | 0.27 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:23 | 285.86 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 9:23 | -131.54 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:23 | 7.35 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:23 | 17.26 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:23 | 1.54 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:28 | 1439.37 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:28 | 0.42 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:28 | 285.02 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 9:28 | -133.39 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:28 | 7.39 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:28 | 17.17 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:28 | 2.55 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:33 | 1419.3 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:33 | 0.57 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:33 | 284.84 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 9:33 | -131.3 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:33 | 7.38 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:33 | 17.11 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:33 | 2.44 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:38 | 1377.29 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:38 | 0.58 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:38 | 284.68 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 9:38 | -133.41 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:38 | 7.37 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:38 | 17.2 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:38 | 2.25 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:43 | 1255.1 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:43 | 0.59 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:43 | 284.44 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 9:43 | -133.59 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:43 | 7.34 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:43 | 17.16 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:43 | 2.16 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:48 | 922.95 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:48 | 0.56 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:48 | 284.28 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 9:48 | -143.97 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:48 | 7.4 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:48 | 17.22 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:48 | 2.65 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:53 | 833.94 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:53 | 0.56 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:53 | 284.22 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 9:53 | -142.65 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36V | pH | 2/22/2022 9:53 | 7.35 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:53 | 17.2 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:53 | 2.22 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 9:58 | 804.5 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 9:58 | 0.65 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 9:58 | 284.13 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 9:58 | -142.81 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 9:58 | 7.37 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 9:58 | 17.25 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 9:58 | 2.03 | NTU |
| GS-AP-MW-36V | Conductivity | 2/22/2022 10:03 | 812.78 | uS/cm |
| GS-AP-MW-36V | DO | 2/22/2022 10:03 | 0.69 | mg/L |
| GS-AP-MW-36V | Depth to Water Detail | 2/22/2022 10:03 | 284.07 | ft |
| GS-AP-MW-36V | Oxidation Reduction Potential | 2/22/2022 10:03 | -139.53 | mv |
| GS-AP-MW-36V | pH | 2/22/2022 10:03 | 7.35 | SU |
| GS-AP-MW-36V | Temperature | 2/22/2022 10:03 | 17.26 | C |
| GS-AP-MW-36V | Turbidity | 2/22/2022 10:03 | 2.6 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-43H | Conductivity | 2/21/2022 11:15 | 1357.77 | uS/cm |
| GS-AP-MW-43H | DO | 2/21/2022 11:15 | 1.87 | mg/L |
| GS-AP-MW-43H | Depth to Water Detail | 2/21/2022 11:15 | 151.27 | ft |
| GS-AP-MW-43H | Oxidation Reduction Potention | 2/21/2022 11:15 | -265.67 | mv |
| GS-AP-MW-43H | pH | 2/21/2022 11:15 | 8.53 | SU |
| GS-AP-MW-43H | Temperature | 2/21/2022 11:15 | 13.48 | C |
| GS-AP-MW-43H | Turbidity | 2/21/2022 11:15 | 6.63 | NTU |
| GS-AP-MW-43H | Conductivity | 2/21/2022 11:20 | 1396.26 | uS/cm |
| GS-AP-MW-43H | DO | 2/21/2022 11:20 | 1.7 | mg/L |
| GS-AP-MW-43H | Depth to Water Detail | 2/21/2022 11:20 | 151.43 | ft |
| GS-AP-MW-43H | Oxidation Reduction Potention | 2/21/2022 11:20 | -270.83 | mv |
| GS-AP-MW-43H | pH | 2/21/2022 11:20 | 8.54 | SU |
| GS-AP-MW-43H | Temperature | 2/21/2022 11:20 | 13.28 | C |
| GS-AP-MW-43H | Turbidity | 2/21/2022 11:20 | 7.23 | NTU |
| GS-AP-MW-43H | Conductivity | 2/21/2022 11:25 | 1408.36 | uS/cm |
| GS-AP-MW-43H | DO | 2/21/2022 11:25 | 1.5 | mg/L |
| GS-AP-MW-43H | Depth to Water Detail | 2/21/2022 11:25 | 151.49 | ft |
| GS-AP-MW-43H | Oxidation Reduction Potention | 2/21/2022 11:25 | -275.04 | mv |
| GS-AP-MW-43H | pH | 2/21/2022 11:25 | 8.55 | SU |
| GS-AP-MW-43H | Temperature | 2/21/2022 11:25 | 13.09 | C |
| GS-AP-MW-43H | Turbidity | 2/21/2022 11:25 | 6.13 | NTU |
| GS-AP-MW-43H | Conductivity | 2/21/2022 11:30 | 1415.51 | uS/cm |
| GS-AP-MW-43H | DO | 2/21/2022 11:30 | 1.37 | mg/L |
| GS-AP-MW-43H | Depth to Water Detail | 2/21/2022 11:30 | 151.57 | ft |
| GS-AP-MW-43H | Oxidation Reduction Potention | 2/21/2022 11:30 | -277.93 | mv |
| GS-AP-MW-43H | pH | 2/21/2022 11:30 | 8.55 | SU |
| GS-AP-MW-43H | Temperature | 2/21/2022 11:30 | 13.24 | C |
| GS-AP-MW-43H | Turbidity | 2/21/2022 11:30 | 5.68 | NTU |
| GS-AP-MW-43H | Conductivity | 2/21/2022 11:35 | 1415.32 | uS/cm |
| GS-AP-MW-43H | DO | 2/21/2022 11:35 | 1.31 | mg/L |
| GS-AP-MW-43H | Depth to Water Detail | 2/21/2022 11:35 | 151.7 | ft |
| GS-AP-MW-43H | Oxidation Reduction Potention | 2/21/2022 11:35 | -279.89 | mv |
| GS-AP-MW-43H | pH | 2/21/2022 11:35 | 8.57 | SU |
| GS-AP-MW-43H | Temperature | 2/21/2022 11:35 | 13.32 | C |
| GS-AP-MW-43H | Turbidity | 2/21/2022 11:35 | 3.78 | NTU |
| GS-AP-MW-43H | Conductivity | 2/21/2022 11:40 | 1416.64 | uS/cm |
| GS-AP-MW-43H | DO | 2/21/2022 11:40 | 1.23 | mg/L |
| GS-AP-MW-43H | Depth to Water Detail | 2/21/2022 11:40 | 151.81 | ft |
| GS-AP-MW-43H | Oxidation Reduction Potention | 2/21/2022 11:40 | -282.26 | mv |
| GS-AP-MW-43H | pH | 2/21/2022 11:40 | 8.58 | SU |
| GS-AP-MW-43H | Temperature | 2/21/2022 11:40 | 13.34 | C |
| GS-AP-MW-43H | Turbidity | 2/21/2022 11:40 | 3.34 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-45V | Conductivity | 2/23/2022 9:41 | 1648.88 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 9:41 | 0.6 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 9:41 | 203.71 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 9:41 | -58.48 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 9:41 | 7.61 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 9:41 | 16.96 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 9:41 | 8.12 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 9:46 | 1644.09 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 9:46 | 0.43 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 9:46 | 208.68 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 9:46 | -87.26 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 9:46 | 7.62 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 9:46 | 16.89 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 9:46 | 5.32 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 9:51 | 1636.68 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 9:51 | 0.35 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 9:51 | 212.6 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 9:51 | -108.05 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 9:51 | 7.65 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 9:51 | 16.93 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 9:51 | 4.76 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 9:56 | 1614.98 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 9:56 | 0.32 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 9:56 | 215.7 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 9:56 | -123.67 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 9:56 | 7.67 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 9:56 | 16.9 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 9:56 | 5.04 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:01 | 1605.12 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:01 | 0.29 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:01 | 219.06 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 10:01 | -135.52 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:01 | 7.7 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:01 | 16.88 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:01 | 5.29 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:06 | 1559.24 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:06 | 0.28 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:06 | 221.65 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 10:06 | -144.58 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:06 | 7.71 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:06 | 16.88 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:06 | 6.62 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:11 | 1552.28 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:11 | 0.6 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:11 | 222.83 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 10:11 | -147.76 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:11 | 7.72 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:11 | 16.3 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:11 | 5.8 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:16 | 1543.78 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:16 | 0.66 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:16 | 223.02 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 10:16 | -149.71 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:16 | 7.72 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:16 | 16.37 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:16 | 6.69 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:21 | 1536.61 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:21 | 0.48 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:21 | 223.44 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potential | 2/23/2022 10:21 | -152.71 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:21 | 7.73 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:21 | 16.75 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:21 | 8.12 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:26 | 1374.04 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:26 | 0.27 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:26 | 226.39 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potential | 2/23/2022 10:26 | -185.88 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:26 | 7.81 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:26 | 16.94 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:26 | 5.97 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:31 | 1483.75 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:31 | 0.26 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:31 | 230.42 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potential | 2/23/2022 10:31 | -180.12 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:31 | 7.79 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:31 | 16.91 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:31 | 7.5 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:36 | 1489.01 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:36 | 0.23 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:36 | 233.12 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potential | 2/23/2022 10:36 | -178.84 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:36 | 7.79 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:36 | 16.95 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:36 | 7.68 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:41 | 1473.71 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:41 | 0.24 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:41 | 236.12 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potential | 2/23/2022 10:41 | -177.45 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:41 | 7.77 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:41 | 16.93 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:41 | 7.42 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:46 | 1458.72 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:46 | 0.22 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:46 | 238.45 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potential | 2/23/2022 10:46 | -178.89 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:46 | 7.79 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:46 | 16.95 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:46 | 7.86 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:51 | 1477.46 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:51 | 0.58 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:51 | 240.22 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potential | 2/23/2022 10:51 | -173.88 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:51 | 7.78 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:51 | 16.49 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:51 | 8.2 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 10:56 | 1473.85 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 10:56 | 0.57 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 10:56 | 240.02 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potential | 2/23/2022 10:56 | -170.3 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 10:56 | 7.77 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 10:56 | 16.49 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 10:56 | 7.76 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-45V | Conductivity | 2/23/2022 11:01 | 1467.16 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 11:01 | 0.5 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 11:01 | 240.05 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 11:01 | -169.8 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 11:01 | 7.76 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 11:01 | 16.61 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 11:01 | 7.54 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 11:06 | 1395.46 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 11:06 | 0.49 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 11:06 | 240.05 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 11:06 | -174.27 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 11:06 | 7.78 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 11:06 | 16.58 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 11:06 | 7.66 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 11:11 | 1245.77 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 11:11 | 0.59 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 11:11 | 240.05 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 11:11 | -184.16 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 11:11 | 7.83 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 11:11 | 16.52 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 11:11 | 7.4 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 11:16 | 1192.61 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 11:16 | 0.68 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 11:16 | 240.05 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 11:16 | -186.86 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 11:16 | 7.85 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 11:16 | 16.37 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 11:16 | 4.06 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 11:21 | 1165.63 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 11:21 | 0.69 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 11:21 | 240.05 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 11:21 | -187.48 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 11:21 | 7.84 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 11:21 | 16.38 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 11:21 | 4.22 | NTU |
| GS-AP-MW-45V | Conductivity | 2/23/2022 11:26 | 1139.43 | uS/cm |
| GS-AP-MW-45V | DO | 2/23/2022 11:26 | 0.7 | mg/L |
| GS-AP-MW-45V | Depth to Water Detail | 2/23/2022 11:26 | 240.05 | ft |
| GS-AP-MW-45V | Oxidation Reduction Potention | 2/23/2022 11:26 | -189.04 | mv |
| GS-AP-MW-45V | pH | 2/23/2022 11:26 | 7.86 | SU |
| GS-AP-MW-45V | Temperature | 2/23/2022 11:26 | 16.32 | C |
| GS-AP-MW-45V | Turbidity | 2/23/2022 11:26 | 4.16 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-PZ-18R | Conductivity | 2/21/2022 14:22 | 484.01 | uS/cm |
| GS-AP-PZ-18R | DO | 2/21/2022 14:22 | 0.63 | mg/L |
| GS-AP-PZ-18R | Depth to Water Detail | 2/21/2022 14:22 | 95.83 | ft |
| GS-AP-PZ-18R | Oxidation Reduction Potention | 2/21/2022 14:22 | -121.25 | mv |
| GS-AP-PZ-18R | pH | 2/21/2022 14:22 | 7.53 | SU |
| GS-AP-PZ-18R | Temperature | 2/21/2022 14:22 | 15.55 | C |
| GS-AP-PZ-18R | Turbidity | 2/21/2022 14:22 | 3.92 | NTU |
| GS-AP-PZ-18R | Conductivity | 2/21/2022 14:27 | 484.79 | uS/cm |
| GS-AP-PZ-18R | DO | 2/21/2022 14:27 | 0.53 | mg/L |
| GS-AP-PZ-18R | Depth to Water Detail | 2/21/2022 14:27 | 95.83 | ft |
| GS-AP-PZ-18R | Oxidation Reduction Potention | 2/21/2022 14:27 | -115.04 | mv |
| GS-AP-PZ-18R | pH | 2/21/2022 14:27 | 7.46 | SU |
| GS-AP-PZ-18R | Temperature | 2/21/2022 14:27 | 15.46 | C |
| GS-AP-PZ-18R | Turbidity | 2/21/2022 14:27 | 2.98 | NTU |
| GS-AP-PZ-18R | Conductivity | 2/21/2022 14:32 | 483.15 | uS/cm |
| GS-AP-PZ-18R | DO | 2/21/2022 14:32 | 0.48 | mg/L |
| GS-AP-PZ-18R | Depth to Water Detail | 2/21/2022 14:32 | 95.83 | ft |
| GS-AP-PZ-18R | Oxidation Reduction Potention | 2/21/2022 14:32 | -108.56 | mv |
| GS-AP-PZ-18R | pH | 2/21/2022 14:32 | 7.36 | SU |
| GS-AP-PZ-18R | Temperature | 2/21/2022 14:32 | 15.26 | C |
| GS-AP-PZ-18R | Turbidity | 2/21/2022 14:32 | 2.29 | NTU |
| GS-AP-PZ-18R | Conductivity | 2/21/2022 14:37 | 483.33 | uS/cm |
| GS-AP-PZ-18R | DO | 2/21/2022 14:37 | 0.44 | mg/L |
| GS-AP-PZ-18R | Depth to Water Detail | 2/21/2022 14:37 | 95.83 | ft |
| GS-AP-PZ-18R | Oxidation Reduction Potention | 2/21/2022 14:37 | -107.95 | mv |
| GS-AP-PZ-18R | pH | 2/21/2022 14:37 | 7.37 | SU |
| GS-AP-PZ-18R | Temperature | 2/21/2022 14:37 | 15.22 | C |
| GS-AP-PZ-18R | Turbidity | 2/21/2022 14:37 | 1.64 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:05 | 994.07 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:05 | 0.67 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:05 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:05 | -225.27 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:05 | 7.35 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:05 | 17.04 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:05 | 11.49 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:10 | 990.79 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:10 | 0.56 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:10 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:10 | -231.82 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:10 | 7.36 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:10 | 17.08 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:10 | 10.48 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:15 | 993.91 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:15 | 0.47 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:15 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:15 | -235.9 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:15 | 7.37 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:15 | 17.06 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:15 | 9.88 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:20 | 993.53 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:20 | 0.41 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:20 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:20 | -237.82 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:20 | 7.36 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:20 | 17.05 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:20 | 8.52 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:25 | 994.25 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:25 | 0.34 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:25 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:25 | -239.48 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:25 | 7.37 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:25 | 17 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:25 | 10.61 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:30 | 994.07 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:30 | 0.3 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:30 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:30 | -240.16 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:30 | 7.37 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:30 | 16.97 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:30 | 13.9 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:35 | 993.84 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:35 | 0.28 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:35 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:35 | -241.41 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:35 | 7.37 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:35 | 16.98 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:35 | 19.9 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:40 | 993.56 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:40 | 0.26 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:40 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:40 | -241.11 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:40 | 7.37 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:40 | 16.98 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:40 | 19 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:45 | 992.88 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:45 | 0.25 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:45 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:45 | -241.12 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:45 | 7.37 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:45 | 16.97 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:45 | 19.8 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:50 | 992.2 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:50 | 0.24 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:50 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:50 | -241.67 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:50 | 7.38 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:50 | 17 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:50 | 14.5 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 12:55 | 991.52 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 12:55 | 0.23 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 12:55 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 12:55 | -241.23 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 12:55 | 7.38 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 12:55 | 17 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 12:55 | 15.5 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 13:00 | 990.36 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 13:00 | 0.36 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 13:00 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 13:00 | -228.82 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 13:00 | 7.38 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 13:00 | 16.78 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 13:00 | 20.7 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 13:05 | 990.02 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 13:05 | 0.38 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 13:05 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 13:05 | -227.29 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 13:05 | 7.38 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 13:05 | 16.71 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 13:05 | 15.3 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 13:10 | 989.79 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 13:10 | 0.38 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 13:10 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 13:10 | -227.8 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 13:10 | 7.38 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 13:10 | 16.71 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 13:10 | 13.2 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 13:15 | 989.54 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 13:15 | 0.38 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 13:15 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 13:15 | -227.97 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 13:15 | 7.38 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 13:15 | 16.76 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 13:15 | 12.8 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 13:20 | 988.88 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 13:20 | 0.38 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 13:20 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 13:20 | -229.17 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 13:20 | 7.39 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 13:20 | 16.78 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 13:20 | 11 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 13:25 | 988.18 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 13:25 | 0.39 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 13:25 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potential | 2/23/2022 13:25 | -225.59 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-23V | pH | 2/23/2022 13:25 | 7.38 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 13:25 | 16.78 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 13:25 | 10.14 | NTU |
| GS-AP-MW-23V | Conductivity | 2/23/2022 13:30 | 986.95 | uS/cm |
| GS-AP-MW-23V | DO | 2/23/2022 13:30 | 0.38 | mg/L |
| GS-AP-MW-23V | Depth to Water Detail | 2/23/2022 13:30 | 43.7 | ft |
| GS-AP-MW-23V | Oxidation Reduction Potention | 2/23/2022 13:30 | -226.73 | mv |
| GS-AP-MW-23V | pH | 2/23/2022 13:30 | 7.38 | SU |
| GS-AP-MW-23V | Temperature | 2/23/2022 13:30 | 16.71 | C |
| GS-AP-MW-23V | Turbidity | 2/23/2022 13:30 | 9.26 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP--MW-31V | Conductivity | 2/22/2022 11:24 | 1162.61 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 11:24 | 0.91 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 11:24 | 275.1 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 11:24 | 167.76 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 11:24 | 7.83 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 11:24 | 17.59 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 11:24 | 3.77 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 11:29 | 1151.82 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 11:29 | 0.46 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 11:29 | 282.2 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 11:29 | 56.08 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 11:29 | 7.84 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 11:29 | 17.64 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 11:29 | 2.27 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 11:34 | 1117.75 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 11:34 | 0.37 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 11:34 | 283.35 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 11:34 | -89.75 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 11:34 | 7.87 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 11:34 | 17.54 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 11:34 | 2.08 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 11:39 | 1079.19 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 11:39 | 0.33 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 11:39 | 285.25 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 11:39 | -134.96 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 11:39 | 7.88 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 11:39 | 17.49 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 11:39 | 2.9 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 11:44 | 1052.03 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 11:44 | 0.32 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 11:44 | 287 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 11:44 | -153.31 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 11:44 | 7.88 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 11:44 | 17.46 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 11:44 | 2.08 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 11:49 | 1047.4 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 11:49 | 0.31 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 11:49 | 288.76 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 11:49 | -161.51 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 11:49 | 7.88 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 11:49 | 17.38 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 11:49 | 2.7 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 11:54 | 1012.7 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 11:54 | 0.28 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 11:54 | 289.83 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 11:54 | -169.94 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 11:54 | 7.91 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 11:54 | 17.53 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 11:54 | 3.12 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 11:59 | 1005.3 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 11:59 | 1.79 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 11:59 | 290.55 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 11:59 | -153.89 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 11:59 | 7.93 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 11:59 | 17.62 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 11:59 | 2.2 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:04 | 993.14 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:04 | 0.72 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:04 | 290.55 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:04 | -165.85 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:04 | 7.93 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:04 | 17.41 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:04 | 2.45 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:09 | 985.88 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:09 | 0.59 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:09 | 290.55 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:09 | -166.8 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:09 | 7.93 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:09 | 17.43 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:09 | 2.23 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:14 | 976.73 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:14 | 0.56 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:14 | 290.55 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:14 | -165.39 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:14 | 7.91 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:14 | 17.63 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:14 | 2.28 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:19 | 969.23 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:19 | 0.52 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:19 | 290.55 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:19 | -169.28 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:19 | 7.95 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:19 | 17.76 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:19 | 2.31 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:24 | 922.21 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:24 | 0.53 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:24 | 290.55 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:24 | -176.28 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:24 | 7.97 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:24 | 17.83 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:24 | 3.01 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:29 | 836.64 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:29 | 0.52 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:29 | 290.55 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:29 | -183.34 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:29 | 7.98 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:29 | 17.84 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:29 | 3.36 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:34 | 793.53 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:34 | 0.51 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:34 | 290.55 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:34 | -185.77 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:34 | 7.98 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:34 | 17.97 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:34 | 3.39 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:39 | 765.01 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:39 | 0.48 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:39 | 290.1 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:39 | -188.56 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:39 | 8 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:39 | 18.28 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:39 | 2.68 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:44 | 740.12 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:44 | 0.58 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:44 | 290.1 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:44 | -191.52 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP--MW-31V | pH | 2/22/2022 12:44 | 8.01 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:44 | 18.1 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:44 | 3.24 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:49 | 724.81 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:49 | 0.52 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:49 | 290.1 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:49 | -192.36 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:49 | 8.01 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:49 | 17.98 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:49 | 3.02 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:54 | 704.97 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:54 | 0.5 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:54 | 290.1 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:54 | -193.18 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:54 | 8 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:54 | 17.93 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:54 | 2.8 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 12:59 | 683.67 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 12:59 | 0.5 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 12:59 | 290.1 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 12:59 | -190.78 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 12:59 | 7.96 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 12:59 | 17.88 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 12:59 | 2.92 | NTU |
| GS-AP--MW-31V | Conductivity | 2/22/2022 13:04 | 674.7 | uS/cm |
| GS-AP--MW-31V | DO | 2/22/2022 13:04 | 0.48 | mg/L |
| GS-AP--MW-31V | Depth to Water Detail | 2/22/2022 13:04 | 290.1 | ft |
| GS-AP--MW-31V | Oxidation Reduction Potential | 2/22/2022 13:04 | -193.67 | mv |
| GS-AP--MW-31V | pH | 2/22/2022 13:04 | 8 | SU |
| GS-AP--MW-31V | Temperature | 2/22/2022 13:04 | 18.03 | C |
| GS-AP--MW-31V | Turbidity | 2/22/2022 13:04 | 3.06 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-46 | Conductivity | 2/23/2022 10:12 | 959.48 | uS/cm |
| GS-AP-MW-46 | DO | 2/23/2022 10:12 | 0.51 | mg/L |
| GS-AP-MW-46 | Depth to Water Detail | 2/23/2022 10:12 | 126.52 | ft |
| GS-AP-MW-46 | Oxidation Reduction Potention | 2/23/2022 10:12 | -276.95 | mv |
| GS-AP-MW-46 | pH | 2/23/2022 10:12 | 8.64 | SU |
| GS-AP-MW-46 | Temperature | 2/23/2022 10:12 | 17.09 | C |
| GS-AP-MW-46 | Turbidity | 2/23/2022 10:12 | 0.65 | NTU |
| GS-AP-MW-46 | Conductivity | 2/23/2022 10:17 | 959.18 | uS/cm |
| GS-AP-MW-46 | DO | 2/23/2022 10:17 | 0.42 | mg/L |
| GS-AP-MW-46 | Depth to Water Detail | 2/23/2022 10:17 | 126.58 | ft |
| GS-AP-MW-46 | Oxidation Reduction Potention | 2/23/2022 10:17 | -282.74 | mv |
| GS-AP-MW-46 | pH | 2/23/2022 10:17 | 8.64 | SU |
| GS-AP-MW-46 | Temperature | 2/23/2022 10:17 | 17.11 | C |
| GS-AP-MW-46 | Turbidity | 2/23/2022 10:17 | 0.74 | NTU |
| GS-AP-MW-46 | Conductivity | 2/23/2022 10:22 | 961.86 | uS/cm |
| GS-AP-MW-46 | DO | 2/23/2022 10:22 | 0.38 | mg/L |
| GS-AP-MW-46 | Depth to Water Detail | 2/23/2022 10:22 | 126.62 | ft |
| GS-AP-MW-46 | Oxidation Reduction Potention | 2/23/2022 10:22 | -288.53 | mv |
| GS-AP-MW-46 | pH | 2/23/2022 10:22 | 8.67 | SU |
| GS-AP-MW-46 | Temperature | 2/23/2022 10:22 | 17.15 | C |
| GS-AP-MW-46 | Turbidity | 2/23/2022 10:22 | 0.67 | NTU |
| GS-AP-MW-46 | Conductivity | 2/23/2022 10:27 | 962.02 | uS/cm |
| GS-AP-MW-46 | DO | 2/23/2022 10:27 | 0.37 | mg/L |
| GS-AP-MW-46 | Depth to Water Detail | 2/23/2022 10:27 | 126.68 | ft |
| GS-AP-MW-46 | Oxidation Reduction Potention | 2/23/2022 10:27 | -292.59 | mv |
| GS-AP-MW-46 | pH | 2/23/2022 10:27 | 8.69 | SU |
| GS-AP-MW-46 | Temperature | 2/23/2022 10:27 | 17.16 | C |
| GS-AP-MW-46 | Turbidity | 2/23/2022 10:27 | 0.71 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:05 | 1048.64 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:05 | 0.4 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:05 | 60.09 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:05 | -127.2 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:05 | 7.15 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:05 | 21.23 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:05 | 2.11 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:10 | 912.22 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:10 | 0.4 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:10 | 62.21 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:10 | -137.37 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:10 | 7.08 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:10 | 21.26 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:10 | 1.35 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:15 | 884.17 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:15 | 1.18 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:15 | 62.09 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:15 | -140.38 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:15 | 7.09 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:15 | 20.39 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:15 | 1.37 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:20 | 863.08 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:20 | 1.28 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:20 | 61.97 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:20 | -140.27 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:20 | 7.11 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:20 | 20.38 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:20 | 1.13 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:25 | 775.91 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:25 | 1.31 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:25 | 61.91 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:25 | -136.18 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:25 | 7.08 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:25 | 20.53 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:25 | 1.08 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:30 | 715.44 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:30 | 1.38 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:30 | 61.85 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:30 | -132.35 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:30 | 7.06 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:30 | 20.43 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:30 | 1 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:35 | 659.51 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:35 | 1.38 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:35 | 61.79 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:35 | -129.78 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:35 | 7.05 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:35 | 20.42 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:35 | 1.07 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:40 | 626.15 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:40 | 1.56 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:40 | 61.74 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:40 | -126.71 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:40 | 7.04 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:40 | 20.37 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:40 | 0.9 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:45 | 608.25 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:45 | 1.54 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:45 | 61.66 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:45 | -125.74 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:45 | 7.03 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:45 | 20.23 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:45 | 0.92 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:50 | 586.24 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:50 | 1.62 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:50 | 61.57 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:50 | -123.58 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:50 | 7.01 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:50 | 20.35 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:50 | 0.85 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 11:55 | 569.72 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 11:55 | 1.65 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 11:55 | 61.49 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 11:55 | -123.54 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 11:55 | 7.02 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 11:55 | 20.37 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 11:55 | 0.93 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 12:00 | 551.43 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 12:00 | 1.65 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 12:00 | 61.36 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 12:00 | -121.74 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 12:00 | 7 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 12:00 | 20.26 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 12:00 | 0.92 | NTU |
| GS-AP-MW-9V | Conductivity | 2/21/2022 12:05 | 544.18 | uS/cm |
| GS-AP-MW-9V | DO | 2/21/2022 12:05 | 1.65 | mg/L |
| GS-AP-MW-9V | Depth to Water Detail | 2/21/2022 12:05 | 61.34 | ft |
| GS-AP-MW-9V | Oxidation Reduction Potention | 2/21/2022 12:05 | -121.26 | mv |
| GS-AP-MW-9V | pH | 2/21/2022 12:05 | 7 | SU |
| GS-AP-MW-9V | Temperature | 2/21/2022 12:05 | 20.16 | C |
| GS-AP-MW-9V | Turbidity | 2/21/2022 12:05 | 0.87 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-38H | Conductivity | 2/22/2022 8:50 | 1493.16 | uS/cm |
| GS-AP-MW-38H | DO | 2/22/2022 8:50 | 0.67 | mg/L |
| GS-AP-MW-38H | Depth to Water Detail | 2/22/2022 8:50 | 47.11 | ft |
| GS-AP-MW-38H | Oxidation Reduction Potention | 2/22/2022 8:50 | -140.44 | mv |
| GS-AP-MW-38H | pH | 2/22/2022 8:50 | 7.65 | SU |
| GS-AP-MW-38H | Temperature | 2/22/2022 8:50 | 19.17 | C |
| GS-AP-MW-38H | Turbidity | 2/22/2022 8:50 | 3.91 | NTU |
| GS-AP-MW-38H | Conductivity | 2/22/2022 8:55 | 1266.32 | uS/cm |
| GS-AP-MW-38H | DO | 2/22/2022 8:55 | 0.48 | mg/L |
| GS-AP-MW-38H | Depth to Water Detail | 2/22/2022 8:55 | 47.18 | ft |
| GS-AP-MW-38H | Oxidation Reduction Potention | 2/22/2022 8:55 | -152.42 | mv |
| GS-AP-MW-38H | pH | 2/22/2022 8:55 | 7.72 | SU |
| GS-AP-MW-38H | Temperature | 2/22/2022 8:55 | 19.17 | C |
| GS-AP-MW-38H | Turbidity | 2/22/2022 8:55 | 2.41 | NTU |
| GS-AP-MW-38H | Conductivity | 2/22/2022 9:00 | 1029.08 | uS/cm |
| GS-AP-MW-38H | DO | 2/22/2022 9:00 | 0.43 | mg/L |
| GS-AP-MW-38H | Depth to Water Detail | 2/22/2022 9:00 | 47.19 | ft |
| GS-AP-MW-38H | Oxidation Reduction Potention | 2/22/2022 9:00 | -156.75 | mv |
| GS-AP-MW-38H | pH | 2/22/2022 9:00 | 7.79 | SU |
| GS-AP-MW-38H | Temperature | 2/22/2022 9:00 | 19.15 | C |
| GS-AP-MW-38H | Turbidity | 2/22/2022 9:00 | 2.12 | NTU |
| GS-AP-MW-38H | Conductivity | 2/22/2022 9:05 | 897.26 | uS/cm |
| GS-AP-MW-38H | DO | 2/22/2022 9:05 | 0.41 | mg/L |
| GS-AP-MW-38H | Depth to Water Detail | 2/22/2022 9:05 | 47.22 | ft |
| GS-AP-MW-38H | Oxidation Reduction Potention | 2/22/2022 9:05 | -156.82 | mv |
| GS-AP-MW-38H | pH | 2/22/2022 9:05 | 7.84 | SU |
| GS-AP-MW-38H | Temperature | 2/22/2022 9:05 | 19.14 | C |
| GS-AP-MW-38H | Turbidity | 2/22/2022 9:05 | 1.41 | NTU |
| GS-AP-MW-38H | Conductivity | 2/22/2022 9:10 | 851.22 | uS/cm |
| GS-AP-MW-38H | DO | 2/22/2022 9:10 | 0.39 | mg/L |
| GS-AP-MW-38H | Depth to Water Detail | 2/22/2022 9:10 | 47.22 | ft |
| GS-AP-MW-38H | Oxidation Reduction Potention | 2/22/2022 9:10 | -155.61 | mv |
| GS-AP-MW-38H | pH | 2/22/2022 9:10 | 7.86 | SU |
| GS-AP-MW-38H | Temperature | 2/22/2022 9:10 | 19.15 | C |
| GS-AP-MW-38H | Turbidity | 2/22/2022 9:10 | 1.54 | NTU |
| GS-AP-MW-38H | Conductivity | 2/22/2022 9:15 | 791.15 | uS/cm |
| GS-AP-MW-38H | DO | 2/22/2022 9:15 | 0.38 | mg/L |
| GS-AP-MW-38H | Depth to Water Detail | 2/22/2022 9:15 | 47.22 | ft |
| GS-AP-MW-38H | Oxidation Reduction Potention | 2/22/2022 9:15 | -154.1 | mv |
| GS-AP-MW-38H | pH | 2/22/2022 9:15 | 7.87 | SU |
| GS-AP-MW-38H | Temperature | 2/22/2022 9:15 | 19.13 | C |
| GS-AP-MW-38H | Turbidity | 2/22/2022 9:15 | 1.9 | NTU |
| GS-AP-MW-38H | Conductivity | 2/22/2022 9:20 | 758.31 | uS/cm |
| GS-AP-MW-38H | DO | 2/22/2022 9:20 | 0.38 | mg/L |
| GS-AP-MW-38H | Depth to Water Detail | 2/22/2022 9:20 | 47.22 | ft |
| GS-AP-MW-38H | Oxidation Reduction Potention | 2/22/2022 9:20 | -153.35 | mv |
| GS-AP-MW-38H | pH | 2/22/2022 9:20 | 7.88 | SU |
| GS-AP-MW-38H | Temperature | 2/22/2022 9:20 | 19.12 | C |
| GS-AP-MW-38H | Turbidity | 2/22/2022 9:20 | 1.26 | NTU |
| GS-AP-MW-38H | Conductivity | 2/22/2022 9:25 | 731.14 | uS/cm |
| GS-AP-MW-38H | DO | 2/22/2022 9:25 | 0.36 | mg/L |
| GS-AP-MW-38H | Depth to Water Detail | 2/22/2022 9:25 | 47.22 | ft |
| GS-AP-MW-38H | Oxidation Reduction Potention | 2/22/2022 9:25 | -152.8 | mv |
| GS-AP-MW-38H | pH | 2/22/2022 9:25 | 7.9 | SU |
| GS-AP-MW-38H | Temperature | 2/22/2022 9:25 | 19.15 | C |
| GS-AP-MW-38H | Turbidity | 2/22/2022 9:25 | 1.49 | NTU |
| GS-AP-MW-38H | Conductivity | 2/22/2022 9:30 | 741.45 | uS/cm |
| GS-AP-MW-38H | DO | 2/22/2022 9:30 | 0.36 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-38H | Depth to Water Detail | 2/22/2022 9:30 | 47.22 | ft |
| GS-AP-MW-38H | Oxidation Reduction Potention | 2/22/2022 9:30 | -152.07 | mv |
| GS-AP-MW-38H | pH | 2/22/2022 9:30 | 7.89 | SU |
| GS-AP-MW-38H | Temperature | 2/22/2022 9:30 | 19.14 | C |
| GS-AP-MW-38H | Turbidity | 2/22/2022 9:30 | 1.62 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-19 | Conductivity | 2/22/2022 10:55 | 611.05 | uS/cm |
| GS-AP-MW-19 | DO | 2/22/2022 10:55 | 0.27 | mg/L |
| GS-AP-MW-19 | Depth to Water Detail | 2/22/2022 10:55 | 113.24 | ft |
| GS-AP-MW-19 | Oxidation Reduction Potention | 2/22/2022 10:55 | -168.31 | mv |
| GS-AP-MW-19 | pH | 2/22/2022 10:55 | 8.17 | SU |
| GS-AP-MW-19 | Temperature | 2/22/2022 10:55 | 18.69 | C |
| GS-AP-MW-19 | Turbidity | 2/22/2022 10:55 | 0.87 | NTU |
| GS-AP-MW-19 | Conductivity | 2/22/2022 11:00 | 612.34 | uS/cm |
| GS-AP-MW-19 | DO | 2/22/2022 11:00 | 0.24 | mg/L |
| GS-AP-MW-19 | Depth to Water Detail | 2/22/2022 11:00 | 113.42 | ft |
| GS-AP-MW-19 | Oxidation Reduction Potention | 2/22/2022 11:00 | -170.28 | mv |
| GS-AP-MW-19 | pH | 2/22/2022 11:00 | 8 | SU |
| GS-AP-MW-19 | Temperature | 2/22/2022 11:00 | 18.69 | C |
| GS-AP-MW-19 | Turbidity | 2/22/2022 11:00 | 0.68 | NTU |
| GS-AP-MW-19 | Conductivity | 2/22/2022 11:05 | 606.48 | uS/cm |
| GS-AP-MW-19 | DO | 2/22/2022 11:05 | 0.23 | mg/L |
| GS-AP-MW-19 | Depth to Water Detail | 2/22/2022 11:05 | 113.42 | ft |
| GS-AP-MW-19 | Oxidation Reduction Potention | 2/22/2022 11:05 | -162.03 | mv |
| GS-AP-MW-19 | pH | 2/22/2022 11:05 | 7.85 | SU |
| GS-AP-MW-19 | Temperature | 2/22/2022 11:05 | 18.62 | C |
| GS-AP-MW-19 | Turbidity | 2/22/2022 11:05 | 0.96 | NTU |
| GS-AP-MW-19 | Conductivity | 2/22/2022 11:10 | 601.11 | uS/cm |
| GS-AP-MW-19 | DO | 2/22/2022 11:10 | 0.23 | mg/L |
| GS-AP-MW-19 | Depth to Water Detail | 2/22/2022 11:10 | 113.42 | ft |
| GS-AP-MW-19 | Oxidation Reduction Potention | 2/22/2022 11:10 | -153.5 | mv |
| GS-AP-MW-19 | pH | 2/22/2022 11:10 | 7.74 | SU |
| GS-AP-MW-19 | Temperature | 2/22/2022 11:10 | 18.66 | C |
| GS-AP-MW-19 | Turbidity | 2/22/2022 11:10 | 0.71 | NTU |
| GS-AP-MW-19 | Conductivity | 2/22/2022 11:15 | 597.93 | uS/cm |
| GS-AP-MW-19 | DO | 2/22/2022 11:15 | 0.24 | mg/L |
| GS-AP-MW-19 | Depth to Water Detail | 2/22/2022 11:15 | 113.42 | ft |
| GS-AP-MW-19 | Oxidation Reduction Potention | 2/22/2022 11:15 | -149.62 | mv |
| GS-AP-MW-19 | pH | 2/22/2022 11:15 | 7.71 | SU |
| GS-AP-MW-19 | Temperature | 2/22/2022 11:15 | 18.62 | C |
| GS-AP-MW-19 | Turbidity | 2/22/2022 11:15 | 0.82 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-2 | Conductivity | 2/22/2022 12:53 | 594.19 | uS/cm |
| GS-AP-MW-2 | DO | 2/22/2022 12:53 | 1.34 | mg/L |
| GS-AP-MW-2 | Depth to Water Detail | 2/22/2022 12:53 | 148.74 | ft |
| GS-AP-MW-2 | Oxidation Reduction Potention | 2/22/2022 12:53 | -151.41 | mv |
| GS-AP-MW-2 | pH | 2/22/2022 12:53 | 9.37 | SU |
| GS-AP-MW-2 | Temperature | 2/22/2022 12:53 | 19.19 | C |
| GS-AP-MW-2 | Turbidity | 2/22/2022 12:53 | 1.74 | NTU |
| GS-AP-MW-2 | Conductivity | 2/22/2022 12:58 | 592.28 | uS/cm |
| GS-AP-MW-2 | DO | 2/22/2022 12:58 | 1.08 | mg/L |
| GS-AP-MW-2 | Depth to Water Detail | 2/22/2022 12:58 | 148.92 | ft |
| GS-AP-MW-2 | Oxidation Reduction Potention | 2/22/2022 12:58 | -157.45 | mv |
| GS-AP-MW-2 | pH | 2/22/2022 12:58 | 9.43 | SU |
| GS-AP-MW-2 | Temperature | 2/22/2022 12:58 | 19.18 | C |
| GS-AP-MW-2 | Turbidity | 2/22/2022 12:58 | 1.32 | NTU |
| GS-AP-MW-2 | Conductivity | 2/22/2022 13:03 | 586.13 | uS/cm |
| GS-AP-MW-2 | DO | 2/22/2022 13:03 | 1.02 | mg/L |
| GS-AP-MW-2 | Depth to Water Detail | 2/22/2022 13:03 | 149.11 | ft |
| GS-AP-MW-2 | Oxidation Reduction Potention | 2/22/2022 13:03 | -160.51 | mv |
| GS-AP-MW-2 | pH | 2/22/2022 13:03 | 9.44 | SU |
| GS-AP-MW-2 | Temperature | 2/22/2022 13:03 | 19.02 | C |
| GS-AP-MW-2 | Turbidity | 2/22/2022 13:03 | 2.31 | NTU |
| GS-AP-MW-2 | Conductivity | 2/22/2022 13:08 | 576.65 | uS/cm |
| GS-AP-MW-2 | DO | 2/22/2022 13:08 | 1.03 | mg/L |
| GS-AP-MW-2 | Depth to Water Detail | 2/22/2022 13:08 | 149.2 | ft |
| GS-AP-MW-2 | Oxidation Reduction Potention | 2/22/2022 13:08 | -163.39 | mv |
| GS-AP-MW-2 | pH | 2/22/2022 13:08 | 9.46 | SU |
| GS-AP-MW-2 | Temperature | 2/22/2022 13:08 | 19.14 | C |
| GS-AP-MW-2 | Turbidity | 2/22/2022 13:08 | 1.56 | NTU |
| GS-AP-MW-2 | Conductivity | 2/22/2022 13:13 | 578.43 | uS/cm |
| GS-AP-MW-2 | DO | 2/22/2022 13:13 | 0.98 | mg/L |
| GS-AP-MW-2 | Depth to Water Detail | 2/22/2022 13:13 | 149.22 | ft |
| GS-AP-MW-2 | Oxidation Reduction Potention | 2/22/2022 13:13 | -162.68 | mv |
| GS-AP-MW-2 | pH | 2/22/2022 13:13 | 9.42 | SU |
| GS-AP-MW-2 | Temperature | 2/22/2022 13:13 | 19.12 | C |
| GS-AP-MW-2 | Turbidity | 2/22/2022 13:13 | 1.62 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12V | Conductivity | 2/23/2022 9:39 | 865.93 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 9:39 | 0.29 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 9:39 | 92.86 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 9:39 | -195.72 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 9:39 | 11.42 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 9:39 | 17.46 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 9:39 | 18.7 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 9:44 | 811.33 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 9:44 | 0.23 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 9:44 | 94.38 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 9:44 | -219.3 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 9:44 | 11.48 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 9:44 | 17.48 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 9:44 | 17.3 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 9:49 | 716.52 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 9:49 | 0.22 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 9:49 | 95.78 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 9:49 | -225.21 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 9:49 | 11.46 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 9:49 | 17.45 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 9:49 | 15.3 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 9:54 | 612.48 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 9:54 | 0.23 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 9:54 | 97.19 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 9:54 | -229.04 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 9:54 | 11.44 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 9:54 | 17.49 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 9:54 | 16.2 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 9:58 | 600.08 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 9:58 | 0.3 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 9:58 | 97.61 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 9:58 | -139.18 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 9:58 | 11.38 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 9:58 | 17.48 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 9:58 | 32 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:03 | 455.57 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:03 | 0.41 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:03 | 98.11 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:03 | -203.6 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:03 | 11.25 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:03 | 17.5 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:03 | 19.2 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:08 | 305.75 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:08 | 0.42 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:08 | 98.5 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:08 | -207.72 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:08 | 10.99 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:08 | 17.51 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:08 | 20.3 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:13 | 251.3 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:13 | 0.46 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:13 | 98.66 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:13 | -206.58 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:13 | 10.84 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:13 | 17.55 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:13 | 23.1 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:18 | 190.09 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:18 | 0.46 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:18 | 98.97 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:18 | -195.76 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:18 | 10.27 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:18 | 17.56 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:18 | 22 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:23 | 195.35 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:23 | 0.5 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:23 | 99.3 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:23 | -193.16 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:23 | 10.06 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:23 | 17.58 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:23 | 24.6 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:28 | 192.86 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:28 | 0.47 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:28 | 99.58 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:28 | -188.37 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:28 | 9.73 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:28 | 17.66 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:28 | 23.1 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:33 | 192.5 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:33 | 0.5 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:33 | 99.65 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:33 | -187.99 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:33 | 9.57 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:33 | 17.64 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:33 | 22.2 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:38 | 217.78 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:38 | 0.54 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:38 | 99.66 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:38 | -184.75 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:38 | 9.33 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:38 | 17.73 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:38 | 16.2 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:39 | 220.35 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:39 | 0.54 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:39 | 99.68 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:39 | -92.85 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:39 | 9.26 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:39 | 17.71 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:39 | 16 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:44 | 236.65 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:44 | 0.55 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:44 | 99.81 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:44 | -165.52 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:44 | 9.01 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:44 | 17.65 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:44 | 15.9 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:49 | 239.96 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:49 | 0.58 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:49 | 99.9 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:49 | -178.11 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:49 | 8.97 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:49 | 17.65 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:49 | 15.5 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:54 | 244.62 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:54 | 0.57 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:54 | 100.02 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 10:54 | -180.78 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12V | pH | 2/23/2022 10:54 | 8.85 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:54 | 17.6 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:54 | 14.7 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 10:59 | 249.29 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 10:59 | 0.56 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 10:59 | 100.1 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 10:59 | -186.91 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 10:59 | 8.8 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 10:59 | 17.53 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 10:59 | 13.6 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:04 | 251.24 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:04 | 0.57 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:04 | 100.11 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:04 | -190.89 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:04 | 8.75 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:04 | 17.54 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:04 | 16.9 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:09 | 289.99 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:09 | 0.59 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:09 | 100.3 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:09 | -196.11 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:09 | 8.63 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:09 | 17.51 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:09 | 14.7 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:14 | 292.01 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:14 | 0.6 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:14 | 100.38 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:14 | -206.32 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:14 | 8.6 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:14 | 17.54 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:14 | 13 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:19 | 295.6 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:19 | 0.62 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:19 | 100.49 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:19 | -210.22 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:19 | 8.5 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:19 | 17.51 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:19 | 11.4 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:24 | 301.2 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:24 | 0.6 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:24 | 100.54 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:24 | -212.76 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:24 | 8.44 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:24 | 17.56 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:24 | 11.7 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:29 | 303.82 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:29 | 0.62 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:29 | 100.63 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:29 | -213.52 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:29 | 8.38 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:29 | 17.54 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:29 | 12.1 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:34 | 301.67 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:34 | 0.6 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:34 | 100.72 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:34 | -215.35 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:34 | 8.39 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:34 | 17.56 | C |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:34 | 11.5 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:39 | 305.25 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:39 | 0.62 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:39 | 100.78 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:39 | -212.29 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:39 | 8.29 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:39 | 17.58 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:39 | 11.6 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:44 | 302.4 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:44 | 0.63 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:44 | 100.85 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:44 | -211.52 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:44 | 8.31 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:44 | 17.61 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:44 | 12 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:49 | 304.98 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:49 | 0.64 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:49 | 100.89 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:49 | -205.7 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:49 | 8.19 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:49 | 17.6 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:49 | 11.2 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:54 | 306.76 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:54 | 0.64 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:54 | 100.92 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:54 | -198.85 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:54 | 8.07 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:54 | 17.58 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:54 | 12.44 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 11:59 | 307.96 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 11:59 | 0.65 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 11:59 | 101.03 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 11:59 | -193.98 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 11:59 | 8.02 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 11:59 | 17.62 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 11:59 | 11 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 12:04 | 308.09 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 12:04 | 0.65 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 12:04 | 101.11 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 12:04 | -190.68 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 12:04 | 7.98 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 12:04 | 17.6 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 12:04 | 12.4 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 12:09 | 306.8 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 12:09 | 0.67 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 12:09 | 101.16 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 12:09 | -186.05 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 12:09 | 7.93 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 12:09 | 17.62 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 12:09 | 11.2 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 12:14 | 310.04 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 12:14 | 0.65 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 12:14 | 101.19 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potention | 2/23/2022 12:14 | -177.96 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 12:14 | 7.82 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 12:14 | 17.68 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 12:14 | 11.72 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 12:19 | 308.84 | uS/cm |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12V | DO | 2/23/2022 12:19 | 0.66 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 12:19 | 101.21 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 12:19 | -175.58 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 12:19 | 7.81 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 12:19 | 17.62 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 12:19 | 11.44 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 12:24 | 309.73 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 12:24 | 0.66 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 12:24 | 101.23 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 12:24 | -170.87 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 12:24 | 7.75 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 12:24 | 17.63 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 12:24 | 11 | NTU |
| GS-AP-MW-12V | Conductivity | 2/23/2022 12:29 | 309.69 | uS/cm |
| GS-AP-MW-12V | DO | 2/23/2022 12:29 | 0.66 | mg/L |
| GS-AP-MW-12V | Depth to Water Detail | 2/23/2022 12:29 | 101.26 | ft |
| GS-AP-MW-12V | Oxidation Reduction Potential | 2/23/2022 12:29 | -168.6 | mv |
| GS-AP-MW-12V | pH | 2/23/2022 12:29 | 7.73 | SU |
| GS-AP-MW-12V | Temperature | 2/23/2022 12:29 | 17.55 | C |
| GS-AP-MW-12V | Turbidity | 2/23/2022 12:29 | 9.83 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-09R | Conductivity | 3/1/2022 11:15 | 1537.39 | uS/cm |
| GS-AP-MW-09R | DO | 3/1/2022 11:15 | 0.74 | mg/L |
| GS-AP-MW-09R | Depth to Water Detail | 3/1/2022 11:15 | 62.44 | ft |
| GS-AP-MW-09R | Oxidation Reduction Potention | 3/1/2022 11:15 | -42.09 | mv |
| GS-AP-MW-09R | pH | 3/1/2022 11:15 | 6.55 | SU |
| GS-AP-MW-09R | Temperature | 3/1/2022 11:15 | 19.12 | C |
| GS-AP-MW-09R | Turbidity | 3/1/2022 11:15 | 8.46 | NTU |
| GS-AP-MW-09R | Conductivity | 3/1/2022 11:20 | 1375.32 | uS/cm |
| GS-AP-MW-09R | DO | 3/1/2022 11:20 | 0.4 | mg/L |
| GS-AP-MW-09R | Depth to Water Detail | 3/1/2022 11:20 | 62.62 | ft |
| GS-AP-MW-09R | Oxidation Reduction Potention | 3/1/2022 11:20 | -42.88 | mv |
| GS-AP-MW-09R | pH | 3/1/2022 11:20 | 6.53 | SU |
| GS-AP-MW-09R | Temperature | 3/1/2022 11:20 | 19.11 | C |
| GS-AP-MW-09R | Turbidity | 3/1/2022 11:20 | 3.57 | NTU |
| GS-AP-MW-09R | Conductivity | 3/1/2022 11:25 | 1192.96 | uS/cm |
| GS-AP-MW-09R | DO | 3/1/2022 11:25 | 0.34 | mg/L |
| GS-AP-MW-09R | Depth to Water Detail | 3/1/2022 11:25 | 62.71 | ft |
| GS-AP-MW-09R | Oxidation Reduction Potention | 3/1/2022 11:25 | -41.3 | mv |
| GS-AP-MW-09R | pH | 3/1/2022 11:25 | 6.5 | SU |
| GS-AP-MW-09R | Temperature | 3/1/2022 11:25 | 19.2 | C |
| GS-AP-MW-09R | Turbidity | 3/1/2022 11:25 | 2.67 | NTU |
| GS-AP-MW-09R | Conductivity | 3/1/2022 11:30 | 1035.55 | uS/cm |
| GS-AP-MW-09R | DO | 3/1/2022 11:30 | 0.32 | mg/L |
| GS-AP-MW-09R | Depth to Water Detail | 3/1/2022 11:30 | 62.76 | ft |
| GS-AP-MW-09R | Oxidation Reduction Potention | 3/1/2022 11:30 | -38.63 | mv |
| GS-AP-MW-09R | pH | 3/1/2022 11:30 | 6.46 | SU |
| GS-AP-MW-09R | Temperature | 3/1/2022 11:30 | 19.27 | C |
| GS-AP-MW-09R | Turbidity | 3/1/2022 11:30 | 1.82 | NTU |
| GS-AP-MW-09R | Conductivity | 3/1/2022 11:35 | 935.21 | uS/cm |
| GS-AP-MW-09R | DO | 3/1/2022 11:35 | 0.32 | mg/L |
| GS-AP-MW-09R | Depth to Water Detail | 3/1/2022 11:35 | 62.82 | ft |
| GS-AP-MW-09R | Oxidation Reduction Potention | 3/1/2022 11:35 | -37.42 | mv |
| GS-AP-MW-09R | pH | 3/1/2022 11:35 | 6.45 | SU |
| GS-AP-MW-09R | Temperature | 3/1/2022 11:35 | 19.21 | C |
| GS-AP-MW-09R | Turbidity | 3/1/2022 11:35 | 1.84 | NTU |
| GS-AP-MW-09R | Conductivity | 3/1/2022 11:40 | 875.81 | uS/cm |
| GS-AP-MW-09R | DO | 3/1/2022 11:40 | 0.32 | mg/L |
| GS-AP-MW-09R | Depth to Water Detail | 3/1/2022 11:40 | 62.85 | ft |
| GS-AP-MW-09R | Oxidation Reduction Potention | 3/1/2022 11:40 | -36.63 | mv |
| GS-AP-MW-09R | pH | 3/1/2022 11:40 | 6.45 | SU |
| GS-AP-MW-09R | Temperature | 3/1/2022 11:40 | 19.24 | C |
| GS-AP-MW-09R | Turbidity | 3/1/2022 11:40 | 1.84 | NTU |
| GS-AP-MW-09R | Conductivity | 3/1/2022 11:45 | 813.02 | uS/cm |
| GS-AP-MW-09R | DO | 3/1/2022 11:45 | 0.32 | mg/L |
| GS-AP-MW-09R | Depth to Water Detail | 3/1/2022 11:45 | 62.85 | ft |
| GS-AP-MW-09R | Oxidation Reduction Potention | 3/1/2022 11:45 | -35.53 | mv |
| GS-AP-MW-09R | pH | 3/1/2022 11:45 | 6.44 | SU |
| GS-AP-MW-09R | Temperature | 3/1/2022 11:45 | 19.25 | C |
| GS-AP-MW-09R | Turbidity | 3/1/2022 11:45 | 1.91 | NTU |
| GS-AP-MW-09R | Conductivity | 3/1/2022 11:50 | 744.42 | uS/cm |
| GS-AP-MW-09R | DO | 3/1/2022 11:50 | 0.32 | mg/L |
| GS-AP-MW-09R | Depth to Water Detail | 3/1/2022 11:50 | 62.85 | ft |
| GS-AP-MW-09R | Oxidation Reduction Potention | 3/1/2022 11:50 | -34.71 | mv |
| GS-AP-MW-09R | pH | 3/1/2022 11:50 | 6.43 | SU |
| GS-AP-MW-09R | Temperature | 3/1/2022 11:50 | 19.28 | C |
| GS-AP-MW-09R | Turbidity | 3/1/2022 11:50 | 2.04 | NTU |
| GS-AP-MW-09R | Conductivity | 3/1/2022 11:55 | 721.13 | uS/cm |
| GS-AP-MW-09R | DO | 3/1/2022 11:55 | 0.32 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-09R | Depth to Water Detail | 3/1/2022 11:55 | 62.85 | ft |
| GS-AP-MW-09R | Oxidation Reduction Potention | 3/1/2022 11:55 | -29.91 | mv |
| GS-AP-MW-09R | pH | 3/1/2022 11:55 | 6.35 | SU |
| GS-AP-MW-09R | Temperature | 3/1/2022 11:55 | 19.34 | C |
| GS-AP-MW-09R | Turbidity | 3/1/2022 11:55 | 1.47 | NTU |
| GS-AP-MW-09R | Conductivity | 3/1/2022 12:00 | 717.38 | uS/cm |
| GS-AP-MW-09R | DO | 3/1/2022 12:00 | 0.32 | mg/L |
| GS-AP-MW-09R | Depth to Water Detail | 3/1/2022 12:00 | 62.85 | ft |
| GS-AP-MW-09R | Oxidation Reduction Potention | 3/1/2022 12:00 | -31.47 | mv |
| GS-AP-MW-09R | pH | 3/1/2022 12:00 | 6.4 | SU |
| GS-AP-MW-09R | Temperature | 3/1/2022 12:00 | 19.28 | C |
| GS-AP-MW-09R | Turbidity | 3/1/2022 12:00 | 1.76 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12 | Conductivity | 2/28/2022 13:42 | 344.7 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 13:42 | 0.29 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 13:42 | 76.32 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potential | 2/28/2022 13:42 | -140.89 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 13:42 | 7.57 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 13:42 | 18.88 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 13:42 | 2.98 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 13:47 | 327.47 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 13:47 | 0.25 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 13:47 | 79.74 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potential | 2/28/2022 13:47 | -261.77 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 13:47 | 10.25 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 13:47 | 18.93 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 13:47 | 1.56 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 13:52 | 324.61 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 13:52 | 0.25 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 13:52 | 81.19 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potential | 2/28/2022 13:52 | -236.04 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 13:52 | 10.19 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 13:52 | 18.71 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 13:52 | 1.72 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 13:57 | 323.84 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 13:57 | 0.52 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 13:57 | 81.22 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potential | 2/28/2022 13:57 | -208.8 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 13:57 | 10.15 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 13:57 | 19.76 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 13:57 | 1.36 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 14:02 | 323.73 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 14:02 | 0.63 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 14:02 | 81.26 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potential | 2/28/2022 14:02 | -187.2 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 14:02 | 10.04 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 14:02 | 19.05 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 14:02 | 1.74 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 14:07 | 320.31 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 14:07 | 0.63 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 14:07 | 81.28 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potential | 2/28/2022 14:07 | -167.81 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 14:07 | 9.69 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 14:07 | 19.05 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 14:07 | 1.45 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 14:12 | 327.73 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 14:12 | 0.6 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 14:12 | 81.38 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potential | 2/28/2022 14:12 | -151.51 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 14:12 | 9.18 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 14:12 | 19.12 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 14:12 | 2.2 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 14:17 | 337.51 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 14:17 | 0.57 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 14:17 | 81.45 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potential | 2/28/2022 14:17 | -177.4 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 14:17 | 8.81 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 14:17 | 19 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 14:17 | 1.54 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 14:22 | 342.23 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 14:22 | 0.56 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 14:22 | 81.58 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potention | 2/28/2022 14:22 | -198.36 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 14:22 | 8.47 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 14:22 | 19.03 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 14:22 | 1.54 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 14:27 | 343.96 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 14:27 | 0.55 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 14:27 | 81.86 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potention | 2/28/2022 14:27 | -190.7 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 14:27 | 8.23 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 14:27 | 18.84 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 14:27 | 1.39 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 14:32 | 343.89 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 14:32 | 0.52 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 14:32 | 81.92 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potention | 2/28/2022 14:32 | -188.75 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 14:32 | 8.2 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 14:32 | 18.94 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 14:32 | 1.57 | NTU |
| GS-AP-MW-12 | Conductivity | 2/28/2022 14:37 | 342.75 | uS/cm |
| GS-AP-MW-12 | DO | 2/28/2022 14:37 | 0.51 | mg/L |
| GS-AP-MW-12 | Depth to Water Detail | 2/28/2022 14:37 | 82.15 | ft |
| GS-AP-MW-12 | Oxidation Reduction Potention | 2/28/2022 14:37 | -183.55 | mv |
| GS-AP-MW-12 | pH | 2/28/2022 14:37 | 8.12 | SU |
| GS-AP-MW-12 | Temperature | 2/28/2022 14:37 | 18.79 | C |
| GS-AP-MW-12 | Turbidity | 2/28/2022 14:37 | 1.45 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-M-01R | Conductivity | 3/1/2022 7:49 | 481.91 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 7:49 | 0.32 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 7:49 | 161 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 7:49 | -187.09 | mv |
| GS-AP-M-01R | pH | 3/1/2022 7:49 | 8.83 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 7:49 | 16.63 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 7:49 | 5.31 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 7:54 | 481.24 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 7:54 | 0.27 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 7:54 | 176.21 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 7:54 | -195.65 | mv |
| GS-AP-M-01R | pH | 3/1/2022 7:54 | 8.85 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 7:54 | 16.52 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 7:54 | 5.1 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 7:59 | 482.22 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 7:59 | 0.25 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 7:59 | 179.25 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 7:59 | -201.07 | mv |
| GS-AP-M-01R | pH | 3/1/2022 7:59 | 8.85 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 7:59 | 16.55 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 7:59 | 5.03 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 8:04 | 480.85 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 8:04 | 0.23 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 8:04 | 181.55 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 8:04 | -201.74 | mv |
| GS-AP-M-01R | pH | 3/1/2022 8:04 | 8.85 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 8:04 | 16.46 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 8:04 | 6.65 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 8:09 | 480.37 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 8:09 | 0.22 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 8:09 | 184.02 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 8:09 | -207.56 | mv |
| GS-AP-M-01R | pH | 3/1/2022 8:09 | 8.86 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 8:09 | 16.52 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 8:09 | 6.28 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 8:14 | 472.92 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 8:14 | 0.23 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 8:14 | 186.24 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 8:14 | -207.28 | mv |
| GS-AP-M-01R | pH | 3/1/2022 8:14 | 8.8 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 8:14 | 16.45 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 8:14 | 4.99 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 8:19 | 479.06 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 8:19 | 0.21 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 8:19 | 187.8 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 8:19 | -213.67 | mv |
| GS-AP-M-01R | pH | 3/1/2022 8:19 | 8.87 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 8:19 | 16.51 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 8:19 | 4.61 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 8:24 | 481.02 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 8:24 | 0.22 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 8:24 | 190.1 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 8:24 | -211.44 | mv |
| GS-AP-M-01R | pH | 3/1/2022 8:24 | 8.8 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 8:24 | 16.56 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 8:24 | 4.51 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 8:29 | 480.69 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 8:29 | 0.21 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 8:29 | 191.75 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 8:29 | -215.32 | mv |
| GS-AP-M-01R | pH | 3/1/2022 8:29 | 8.87 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 8:29 | 16.59 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 8:29 | 5.41 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 8:34 | 479.56 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 8:34 | 0.31 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 8:34 | 192.25 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 8:34 | -205.85 | mv |
| GS-AP-M-01R | pH | 3/1/2022 8:34 | 8.86 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 8:34 | 15.68 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 8:34 | 5.28 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 8:39 | 478.3 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 8:39 | 0.35 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 8:39 | 191.62 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 8:39 | -200.24 | mv |
| GS-AP-M-01R | pH | 3/1/2022 8:39 | 8.87 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 8:39 | 15.7 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 8:39 | 5.52 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 8:44 | 473.15 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 8:44 | 0.36 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 8:44 | 191.1 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 8:44 | -201.12 | mv |
| GS-AP-M-01R | pH | 3/1/2022 8:44 | 8.87 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 8:44 | 15.84 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 8:44 | 6.25 | NTU |
| GS-AP-M-01R | Conductivity | 3/1/2022 8:49 | 469.21 | uS/cm |
| GS-AP-M-01R | DO | 3/1/2022 8:49 | 0.36 | mg/L |
| GS-AP-M-01R | Depth to Water Detail | 3/1/2022 8:49 | 190.88 | ft |
| GS-AP-M-01R | Oxidation Reduction Potention | 3/1/2022 8:49 | -202.87 | mv |
| GS-AP-M-01R | pH | 3/1/2022 8:49 | 8.86 | SU |
| GS-AP-M-01R | Temperature | 3/1/2022 8:49 | 15.83 | C |
| GS-AP-M-01R | Turbidity | 3/1/2022 8:49 | 6.37 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-11R | Conductivity | 3/1/2022 10:17 | 384.77 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 10:17 | 0.5 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 10:17 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 10:17 | -35.77 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 10:17 | 6.75 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 10:17 | 17.13 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 10:17 | 100.1 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 10:22 | 382.97 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 10:22 | 0.38 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 10:22 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 10:22 | -37.28 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 10:22 | 6.7 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 10:22 | 17.14 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 10:22 | 78.6 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 10:27 | 381.95 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 10:27 | 0.34 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 10:27 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 10:27 | -38.48 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 10:27 | 6.73 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 10:27 | 17.17 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 10:27 | 55.4 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 10:32 | 381.8 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 10:32 | 0.36 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 10:32 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 10:32 | -36.93 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 10:32 | 6.69 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 10:32 | 17.21 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 10:32 | 33.8 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 10:37 | 379.15 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 10:37 | 0.5 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 10:37 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 10:37 | -32.16 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 10:37 | 6.7 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 10:37 | 17.49 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 10:37 | 40.9 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 10:42 | 381.51 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 10:42 | 0.3 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 10:42 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 10:42 | -32.68 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 10:42 | 6.66 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 10:42 | 17.33 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 10:42 | 35.1 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 10:47 | 382.2 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 10:47 | 0.25 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 10:47 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 10:47 | -44.8 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 10:47 | 6.69 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 10:47 | 17.26 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 10:47 | 11.3 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 10:52 | 381.68 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 10:52 | 0.24 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 10:52 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 10:52 | -44.47 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 10:52 | 6.66 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 10:52 | 17.27 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 10:52 | 9.64 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 10:57 | 382.19 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 10:57 | 0.23 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 10:57 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 10:57 | -46.28 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 10:57 | 6.67 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 10:57 | 17.17 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 10:57 | 8.62 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 11:02 | 382.69 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 11:02 | 0.22 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 11:02 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 11:02 | -47.53 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 11:02 | 6.68 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 11:02 | 17.17 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 11:02 | 10.02 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 11:07 | 382.52 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 11:07 | 0.22 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 11:07 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 11:07 | -50.63 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 11:07 | 6.69 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 11:07 | 17.2 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 11:07 | 7.65 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 11:12 | 382.5 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 11:12 | 0.22 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 11:12 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 11:12 | -52.48 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 11:12 | 6.69 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 11:12 | 17.2 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 11:12 | 6.92 | NTU |
| GS-AP-MW-11R | Conductivity | 3/1/2022 11:17 | 382.55 | uS/cm |
| GS-AP-MW-11R | DO | 3/1/2022 11:17 | 0.22 | mg/L |
| GS-AP-MW-11R | Depth to Water Detail | 3/1/2022 11:17 | 75.05 | ft |
| GS-AP-MW-11R | Oxidation Reduction Potention | 3/1/2022 11:17 | -54.74 | mv |
| GS-AP-MW-11R | pH | 3/1/2022 11:17 | 6.68 | SU |
| GS-AP-MW-11R | Temperature | 3/1/2022 11:17 | 17.12 | C |
| GS-AP-MW-11R | Turbidity | 3/1/2022 11:17 | 7.38 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-05R | Conductivity | 3/1/2022 12:11 | 1894.78 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 12:11 | 0.77 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 12:11 | 146.4 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 12:11 | -164.74 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 12:11 | 6.61 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 12:11 | 17.54 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 12:11 | 4.42 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 12:16 | 1973.48 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 12:16 | 0.71 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 12:16 | 146.92 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 12:16 | -175.31 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 12:16 | 6.6 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 12:16 | 17.58 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 12:16 | 2.75 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 12:21 | 2007.98 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 12:21 | 0.62 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 12:21 | 147.56 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 12:21 | -188.95 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 12:21 | 6.63 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 12:21 | 17.46 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 12:21 | 2.02 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 12:26 | 1900.37 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 12:26 | 0.4 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 12:26 | 149.4 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 12:26 | -202.08 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 12:26 | 6.62 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 12:26 | 17.02 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 12:26 | 2.99 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 12:31 | 1777.3 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 12:31 | 0.42 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 12:31 | 153.28 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 12:31 | -192.52 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 12:31 | 6.59 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 12:31 | 17.09 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 12:31 | 2.37 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 12:36 | 1742.92 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 12:36 | 0.41 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 12:36 | 154 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 12:36 | -196.72 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 12:36 | 6.6 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 12:36 | 17.25 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 12:36 | 2.11 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 12:41 | 1672.02 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 12:41 | 0.32 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 12:41 | 154.55 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 12:41 | -208.95 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 12:41 | 6.6 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 12:41 | 17.34 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 12:41 | 1.72 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 12:46 | 1557.32 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 12:46 | 0.3 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 12:46 | 155 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 12:46 | -213.49 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 12:46 | 6.59 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 12:46 | 17.29 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 12:46 | 1.1 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-05R | Conductivity | 3/1/2022 12:51 | 1449.85 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 12:51 | 0.3 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 12:51 | 155.43 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 12:51 | -216.43 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 12:51 | 6.59 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 12:51 | 17.27 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 12:51 | 1.31 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 12:56 | 1371.54 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 12:56 | 0.29 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 12:56 | 155.85 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 12:56 | -218.25 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 12:56 | 6.61 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 12:56 | 17.2 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 12:56 | 1.22 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 13:01 | 1325.62 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 13:01 | 0.34 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 13:01 | 155.3 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 13:01 | -217.46 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 13:01 | 6.62 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 13:01 | 17.45 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 13:01 | 1.7 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 13:06 | 1225.22 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 13:06 | 0.32 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 13:06 | 154.82 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 13:06 | -223.35 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 13:06 | 6.68 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 13:06 | 17.46 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 13:06 | 0.85 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 13:11 | 1187.63 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 13:11 | 0.32 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 13:11 | 154.5 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 13:11 | -226.54 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 13:11 | 6.73 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 13:11 | 17.45 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 13:11 | 0.95 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 13:16 | 1159.63 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 13:16 | 0.3 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 13:16 | 154.1 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 13:16 | -228.53 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 13:16 | 6.76 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 13:16 | 17.71 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 13:16 | 1.46 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 13:21 | 1130.5 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 13:21 | 0.28 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 13:21 | 154.1 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 13:21 | -229.29 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 13:21 | 6.75 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 13:21 | 17.45 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 13:21 | 1.42 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 13:26 | 1121.58 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 13:26 | 0.28 | mg/L |
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 13:26 | 154.1 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 13:26 | -229.26 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 13:26 | 6.76 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 13:26 | 17.47 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 13:26 | 1.03 | NTU |
| GS-AP-MW-05R | Conductivity | 3/1/2022 13:31 | 1113.2 | uS/cm |
| GS-AP-MW-05R | DO | 3/1/2022 13:31 | 0.28 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-05R | Depth to Water Detail | 3/1/2022 13:31 | 154.1 | ft |
| GS-AP-MW-05R | Oxidation Reduction Potention | 3/1/2022 13:31 | -229.33 | mv |
| GS-AP-MW-05R | pH | 3/1/2022 13:31 | 6.77 | SU |
| GS-AP-MW-05R | Temperature | 3/1/2022 13:31 | 17.49 | C |
| GS-AP-MW-05R | Turbidity | 3/1/2022 13:31 | 1.38 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-10R | Conductivity | 3/1/2022 10:23 | 1214.81 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 10:23 | 0.63 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 10:23 | 151.19 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 10:23 | 23.33 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 10:23 | 6.74 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 10:23 | 17.35 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 10:23 | 7.99 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 10:28 | 1187.22 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 10:28 | 0.52 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 10:28 | 154.31 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 10:28 | 3.31 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 10:28 | 6.78 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 10:28 | 17.44 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 10:28 | 8.91 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 10:33 | 1159.52 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 10:33 | 0.55 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 10:33 | 154.7 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 10:33 | -36.2 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 10:33 | 6.86 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 10:33 | 17.81 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 10:33 | 8.76 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 10:38 | 1103.89 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 10:38 | 0.55 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 10:38 | 154.83 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 10:38 | -60.93 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 10:38 | 6.93 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 10:38 | 17.86 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 10:38 | 8.08 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 10:43 | 993.07 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 10:43 | 0.53 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 10:43 | 154.92 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 10:43 | -85.59 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 10:43 | 6.95 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 10:43 | 17.94 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 10:43 | 4.57 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 10:48 | 937.79 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 10:48 | 0.49 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 10:48 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 10:48 | -96.53 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 10:48 | 6.95 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 10:48 | 18.13 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 10:48 | 10.06 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 10:53 | 869.73 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 10:53 | 0.49 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 10:53 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 10:53 | -101.84 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 10:53 | 6.92 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 10:53 | 17.97 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 10:53 | 10.45 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 10:58 | 815.24 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 10:58 | 0.56 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 10:58 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 10:58 | -105.63 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 10:58 | 6.91 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 10:58 | 18.1 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 10:58 | 9.62 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:03 | 763.33 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:03 | 0.54 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:03 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:03 | -107.04 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:03 | 6.9 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:03 | 18.21 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:03 | 9.33 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:08 | 693.99 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:08 | 0.52 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:08 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:08 | -98.12 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:08 | 6.86 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:08 | 18.23 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:08 | 8.74 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:14 | 669.79 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:14 | 0.34 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:14 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:14 | -100.48 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:14 | 6.84 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:14 | 17.91 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:14 | 6.43 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:19 | 642.01 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:19 | 0.31 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:19 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:19 | -103.43 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:19 | 6.87 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:19 | 18.06 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:19 | 5.25 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:24 | 621.59 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:24 | 0.31 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:24 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:24 | -103.44 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:24 | 6.86 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:24 | 18.02 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:24 | 4.48 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:29 | 606.12 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:29 | 0.3 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:29 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:29 | -98.94 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:29 | 6.79 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:29 | 17.89 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:29 | 4.61 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:34 | 583.14 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:34 | 0.3 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:34 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:34 | -97.08 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:34 | 6.8 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:34 | 17.78 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:34 | 5.21 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:39 | 568.09 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:39 | 0.3 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:39 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:39 | -96.38 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:39 | 6.83 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:39 | 17.83 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:39 | 4.8 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:44 | 554.77 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:44 | 0.33 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:44 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:44 | -96.7 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-10R | pH | 3/1/2022 11:44 | 6.85 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:44 | 18.03 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:44 | 4.91 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:49 | 539.64 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:49 | 0.33 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:49 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:49 | -97.09 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:49 | 6.87 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:49 | 18.04 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:49 | 4.44 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:54 | 511.24 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:54 | 0.41 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:54 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:54 | -98.15 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:54 | 6.89 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:54 | 18.28 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:54 | 4.05 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 11:59 | 512.89 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 11:59 | 0.45 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 11:59 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 11:59 | -98.29 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 11:59 | 6.91 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 11:59 | 18.31 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 11:59 | 3.96 | NTU |
| GS-AP-MW-10R | Conductivity | 3/1/2022 12:04 | 503.13 | uS/cm |
| GS-AP-MW-10R | DO | 3/1/2022 12:04 | 0.46 | mg/L |
| GS-AP-MW-10R | Depth to Water Detail | 3/1/2022 12:04 | 154.98 | ft |
| GS-AP-MW-10R | Oxidation Reduction Potential | 3/1/2022 12:04 | -96.67 | mv |
| GS-AP-MW-10R | pH | 3/1/2022 12:04 | 6.87 | SU |
| GS-AP-MW-10R | Temperature | 3/1/2022 12:04 | 18.32 | C |
| GS-AP-MW-10R | Turbidity | 3/1/2022 12:04 | 4.41 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-13R | Conductivity | 3/1/2022 7:56 | 358.31 | uS/cm |
| GS-AP-MW-13R | DO | 3/1/2022 7:56 | 1.24 | mg/L |
| GS-AP-MW-13R | Depth to Water Detail | 3/1/2022 7:56 | 102.35 | ft |
| GS-AP-MW-13R | Oxidation Reduction Potention | 3/1/2022 7:56 | -31.68 | mv |
| GS-AP-MW-13R | pH | 3/1/2022 7:56 | 6.52 | SU |
| GS-AP-MW-13R | Temperature | 3/1/2022 7:56 | 14.89 | C |
| GS-AP-MW-13R | Turbidity | 3/1/2022 7:56 | 9.04 | NTU |
| GS-AP-MW-13R | Conductivity | 3/1/2022 8:01 | 358.45 | uS/cm |
| GS-AP-MW-13R | DO | 3/1/2022 8:01 | 0.72 | mg/L |
| GS-AP-MW-13R | Depth to Water Detail | 3/1/2022 8:01 | 103.02 | ft |
| GS-AP-MW-13R | Oxidation Reduction Potention | 3/1/2022 8:01 | -20.66 | mv |
| GS-AP-MW-13R | pH | 3/1/2022 8:01 | 6.44 | SU |
| GS-AP-MW-13R | Temperature | 3/1/2022 8:01 | 15.17 | C |
| GS-AP-MW-13R | Turbidity | 3/1/2022 8:01 | 7.44 | NTU |
| GS-AP-MW-13R | Conductivity | 3/1/2022 8:06 | 350.25 | uS/cm |
| GS-AP-MW-13R | DO | 3/1/2022 8:06 | 0.64 | mg/L |
| GS-AP-MW-13R | Depth to Water Detail | 3/1/2022 8:06 | 103.6 | ft |
| GS-AP-MW-13R | Oxidation Reduction Potention | 3/1/2022 8:06 | -20.18 | mv |
| GS-AP-MW-13R | pH | 3/1/2022 8:06 | 6.4 | SU |
| GS-AP-MW-13R | Temperature | 3/1/2022 8:06 | 15.31 | C |
| GS-AP-MW-13R | Turbidity | 3/1/2022 8:06 | 7.63 | NTU |
| GS-AP-MW-13R | Conductivity | 3/1/2022 8:11 | 347.31 | uS/cm |
| GS-AP-MW-13R | DO | 3/1/2022 8:11 | 0.6 | mg/L |
| GS-AP-MW-13R | Depth to Water Detail | 3/1/2022 8:11 | 104.11 | ft |
| GS-AP-MW-13R | Oxidation Reduction Potention | 3/1/2022 8:11 | -22.14 | mv |
| GS-AP-MW-13R | pH | 3/1/2022 8:11 | 6.43 | SU |
| GS-AP-MW-13R | Temperature | 3/1/2022 8:11 | 15.2 | C |
| GS-AP-MW-13R | Turbidity | 3/1/2022 8:11 | 9.01 | NTU |
| GS-AP-MW-13R | Conductivity | 3/1/2022 8:16 | 347.57 | uS/cm |
| GS-AP-MW-13R | DO | 3/1/2022 8:16 | 0.57 | mg/L |
| GS-AP-MW-13R | Depth to Water Detail | 3/1/2022 8:16 | 104.64 | ft |
| GS-AP-MW-13R | Oxidation Reduction Potention | 3/1/2022 8:16 | -24.48 | mv |
| GS-AP-MW-13R | pH | 3/1/2022 8:16 | 6.46 | SU |
| GS-AP-MW-13R | Temperature | 3/1/2022 8:16 | 15.28 | C |
| GS-AP-MW-13R | Turbidity | 3/1/2022 8:16 | 8 | NTU |
| GS-AP-MW-13R | Conductivity | 3/1/2022 8:21 | 346.26 | uS/cm |
| GS-AP-MW-13R | DO | 3/1/2022 8:21 | 0.71 | mg/L |
| GS-AP-MW-13R | Depth to Water Detail | 3/1/2022 8:21 | 104.86 | ft |
| GS-AP-MW-13R | Oxidation Reduction Potention | 3/1/2022 8:21 | -26.54 | mv |
| GS-AP-MW-13R | pH | 3/1/2022 8:21 | 6.43 | SU |
| GS-AP-MW-13R | Temperature | 3/1/2022 8:21 | 14.64 | C |
| GS-AP-MW-13R | Turbidity | 3/1/2022 8:21 | 6.2 | NTU |
| GS-AP-MW-13R | Conductivity | 3/1/2022 8:26 | 344.9 | uS/cm |
| GS-AP-MW-13R | DO | 3/1/2022 8:26 | 0.73 | mg/L |
| GS-AP-MW-13R | Depth to Water Detail | 3/1/2022 8:26 | 104.98 | ft |
| GS-AP-MW-13R | Oxidation Reduction Potention | 3/1/2022 8:26 | -28.34 | mv |
| GS-AP-MW-13R | pH | 3/1/2022 8:26 | 6.46 | SU |
| GS-AP-MW-13R | Temperature | 3/1/2022 8:26 | 14.88 | C |
| GS-AP-MW-13R | Turbidity | 3/1/2022 8:26 | 4.68 | NTU |
| GS-AP-MW-13R | Conductivity | 3/1/2022 8:31 | 341.37 | uS/cm |
| GS-AP-MW-13R | DO | 3/1/2022 8:31 | 0.74 | mg/L |
| GS-AP-MW-13R | Depth to Water Detail | 3/1/2022 8:31 | 105.12 | ft |
| GS-AP-MW-13R | Oxidation Reduction Potention | 3/1/2022 8:31 | -31.02 | mv |
| GS-AP-MW-13R | pH | 3/1/2022 8:31 | 6.47 | SU |
| GS-AP-MW-13R | Temperature | 3/1/2022 8:31 | 15.21 | C |
| GS-AP-MW-13R | Turbidity | 3/1/2022 8:31 | 4.34 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-14R | Conductivity | 2/28/2022 14:50 | 560.4 | uS/cm |
| GS-AP-MW-14R | DO | 2/28/2022 14:50 | 0.61 | mg/L |
| GS-AP-MW-14R | Depth to Water Detail | 2/28/2022 14:50 | 108.77 | ft |
| GS-AP-MW-14R | Oxidation Reduction Potention | 2/28/2022 14:50 | -35.59 | mv |
| GS-AP-MW-14R | pH | 2/28/2022 14:50 | 7.01 | SU |
| GS-AP-MW-14R | Temperature | 2/28/2022 14:50 | 16.65 | C |
| GS-AP-MW-14R | Turbidity | 2/28/2022 14:50 | 7.23 | NTU |
| GS-AP-MW-14R | Conductivity | 2/28/2022 14:55 | 557.55 | uS/cm |
| GS-AP-MW-14R | DO | 2/28/2022 14:55 | 0.42 | mg/L |
| GS-AP-MW-14R | Depth to Water Detail | 2/28/2022 14:55 | 110.36 | ft |
| GS-AP-MW-14R | Oxidation Reduction Potention | 2/28/2022 14:55 | -44.41 | mv |
| GS-AP-MW-14R | pH | 2/28/2022 14:55 | 6.99 | SU |
| GS-AP-MW-14R | Temperature | 2/28/2022 14:55 | 16.51 | C |
| GS-AP-MW-14R | Turbidity | 2/28/2022 14:55 | 5.21 | NTU |
| GS-AP-MW-14R | Conductivity | 2/28/2022 15:00 | 553.83 | uS/cm |
| GS-AP-MW-14R | DO | 2/28/2022 15:00 | 0.37 | mg/L |
| GS-AP-MW-14R | Depth to Water Detail | 2/28/2022 15:00 | 113.64 | ft |
| GS-AP-MW-14R | Oxidation Reduction Potention | 2/28/2022 15:00 | -55.22 | mv |
| GS-AP-MW-14R | pH | 2/28/2022 15:00 | 6.98 | SU |
| GS-AP-MW-14R | Temperature | 2/28/2022 15:00 | 16.56 | C |
| GS-AP-MW-14R | Turbidity | 2/28/2022 15:00 | 5.37 | NTU |
| GS-AP-MW-14R | Conductivity | 2/28/2022 15:05 | 547.99 | uS/cm |
| GS-AP-MW-14R | DO | 2/28/2022 15:05 | 0.32 | mg/L |
| GS-AP-MW-14R | Depth to Water Detail | 2/28/2022 15:05 | 115.29 | ft |
| GS-AP-MW-14R | Oxidation Reduction Potention | 2/28/2022 15:05 | -64.65 | mv |
| GS-AP-MW-14R | pH | 2/28/2022 15:05 | 6.98 | SU |
| GS-AP-MW-14R | Temperature | 2/28/2022 15:05 | 16.57 | C |
| GS-AP-MW-14R | Turbidity | 2/28/2022 15:05 | 3.84 | NTU |
| GS-AP-MW-14R | Conductivity | 2/28/2022 15:10 | 544.89 | uS/cm |
| GS-AP-MW-14R | DO | 2/28/2022 15:10 | 0.55 | mg/L |
| GS-AP-MW-14R | Depth to Water Detail | 2/28/2022 15:10 | 116.04 | ft |
| GS-AP-MW-14R | Oxidation Reduction Potention | 2/28/2022 15:10 | -70.8 | mv |
| GS-AP-MW-14R | pH | 2/28/2022 15:10 | 6.99 | SU |
| GS-AP-MW-14R | Temperature | 2/28/2022 15:10 | 16.4 | C |
| GS-AP-MW-14R | Turbidity | 2/28/2022 15:10 | 3.93 | NTU |
| GS-AP-MW-14R | Conductivity | 2/28/2022 15:15 | 536.67 | uS/cm |
| GS-AP-MW-14R | DO | 2/28/2022 15:15 | 0.67 | mg/L |
| GS-AP-MW-14R | Depth to Water Detail | 2/28/2022 15:15 | 116 | ft |
| GS-AP-MW-14R | Oxidation Reduction Potention | 2/28/2022 15:15 | -75.92 | mv |
| GS-AP-MW-14R | pH | 2/28/2022 15:15 | 7 | SU |
| GS-AP-MW-14R | Temperature | 2/28/2022 15:15 | 16.58 | C |
| GS-AP-MW-14R | Turbidity | 2/28/2022 15:15 | 3.8 | NTU |
| GS-AP-MW-14R | Conductivity | 2/28/2022 15:20 | 511.93 | uS/cm |
| GS-AP-MW-14R | DO | 2/28/2022 15:20 | 0.76 | mg/L |
| GS-AP-MW-14R | Depth to Water Detail | 2/28/2022 15:20 | 115.98 | ft |
| GS-AP-MW-14R | Oxidation Reduction Potention | 2/28/2022 15:20 | -91.75 | mv |
| GS-AP-MW-14R | pH | 2/28/2022 15:20 | 7.02 | SU |
| GS-AP-MW-14R | Temperature | 2/28/2022 15:20 | 16.56 | C |
| GS-AP-MW-14R | Turbidity | 2/28/2022 15:20 | 3.66 | NTU |
| GS-AP-MW-14R | Conductivity | 2/28/2022 15:25 | 502.08 | uS/cm |
| GS-AP-MW-14R | DO | 2/28/2022 15:25 | 0.82 | mg/L |
| GS-AP-MW-14R | Depth to Water Detail | 2/28/2022 15:25 | 115.96 | ft |
| GS-AP-MW-14R | Oxidation Reduction Potention | 2/28/2022 15:25 | -101.52 | mv |
| GS-AP-MW-14R | pH | 2/28/2022 15:25 | 7.03 | SU |
| GS-AP-MW-14R | Temperature | 2/28/2022 15:25 | 16.54 | C |
| GS-AP-MW-14R | Turbidity | 2/28/2022 15:25 | 3.1 | NTU |
| GS-AP-MW-14R | Conductivity | 2/28/2022 15:30 | 492.21 | uS/cm |
| GS-AP-MW-14R | DO | 2/28/2022 15:30 | 0.81 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-14R | Depth to Water Detail | 2/28/2022 15:30 | 115.96 | ft |
| GS-AP-MW-14R | Oxidation Reduction Potential | 2/28/2022 15:30 | -108.05 | mv |
| GS-AP-MW-14R | pH | 2/28/2022 15:30 | 7.04 | SU |
| GS-AP-MW-14R | Temperature | 2/28/2022 15:30 | 16.41 | C |
| GS-AP-MW-14R | Turbidity | 2/28/2022 15:30 | 3.89 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 10:47 | 854.48 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 10:47 | 0.56 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 10:47 | 146.84 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potential | 2/28/2022 10:47 | -17.49 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 10:47 | 7.62 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 10:47 | 16.87 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 10:47 | 4.09 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 10:52 | 850.12 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 10:52 | 0.41 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 10:52 | 149.4 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potential | 2/28/2022 10:52 | -62.66 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 10:52 | 7.69 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 10:52 | 16.78 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 10:52 | 3.9 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 10:57 | 843.5 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 10:57 | 0.35 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 10:57 | 152.8 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potential | 2/28/2022 10:57 | -83.34 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 10:57 | 7.74 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 10:57 | 16.84 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 10:57 | 3.14 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:02 | 836.86 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:02 | 0.32 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:02 | 156.77 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potential | 2/28/2022 11:02 | -93.72 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:02 | 7.74 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:02 | 16.91 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:02 | 3.1 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:07 | 823.77 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:07 | 0.25 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:07 | 159.12 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potential | 2/28/2022 11:07 | -109.11 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:07 | 7.79 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:07 | 16.94 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:07 | 3.11 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:12 | 820.94 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:12 | 0.18 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:12 | 162.2 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potential | 2/28/2022 11:12 | -121.38 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:12 | 7.75 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:12 | 16.89 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:12 | 3.06 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:17 | 809.94 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:17 | 0.29 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:17 | 163.66 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potential | 2/28/2022 11:17 | -126.19 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:17 | 7.81 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:17 | 16.98 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:17 | 3.14 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:22 | 802.7 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:22 | 0.32 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:22 | 164.2 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potential | 2/28/2022 11:22 | -128.07 | mv |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-37HR | pH | 2/28/2022 11:22 | 7.83 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:22 | 17.1 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:22 | 3.02 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:27 | 724.63 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:27 | 0.33 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:27 | 164.71 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 11:27 | -136.33 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:27 | 7.82 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:27 | 17.02 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:27 | 3.03 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:32 | 674.81 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:32 | 0.32 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:32 | 165.11 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 11:32 | -150.6 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:32 | 7.86 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:32 | 17.12 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:32 | 2.98 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:37 | 641.44 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:37 | 0.32 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:37 | 165.5 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 11:37 | -157.93 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:37 | 7.87 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:37 | 17.19 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:37 | 2.84 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:42 | 616.8 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:42 | 0.33 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:42 | 165.88 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 11:42 | -157.56 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:42 | 7.81 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:42 | 17.15 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:42 | 2.97 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:47 | 588.86 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:47 | 0.33 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:47 | 166.32 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 11:47 | -162.1 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:47 | 7.87 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:47 | 17.17 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:47 | 2.71 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:52 | 557.17 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:52 | 0.33 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:52 | 166.54 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 11:52 | -165.01 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:52 | 7.89 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:52 | 17.33 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:52 | 2.76 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 11:57 | 541.95 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 11:57 | 0.33 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 11:57 | 166.84 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 11:57 | -164.82 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 11:57 | 7.87 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 11:57 | 17.31 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 11:57 | 2.7 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 12:02 | 527.86 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 12:02 | 0.34 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 12:02 | 166.79 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 12:02 | -164.93 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 12:02 | 7.89 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 12:02 | 17.34 | C |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-37HR | Turbidity | 2/28/2022 12:02 | 2.81 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 12:07 | 514.77 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 12:07 | 0.46 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 12:07 | 166.79 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 12:07 | -163.28 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 12:07 | 7.91 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 12:07 | 17.5 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 12:07 | 2.69 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 12:12 | 513.41 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 12:12 | 0.4 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 12:12 | 166.79 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 12:12 | -162.87 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 12:12 | 7.91 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 12:12 | 17.48 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 12:12 | 2.8 | NTU |
| GS-AP-MW-37HR | Conductivity | 2/28/2022 12:17 | 497.92 | uS/cm |
| GS-AP-MW-37HR | DO | 2/28/2022 12:17 | 0.38 | mg/L |
| GS-AP-MW-37HR | Depth to Water Detail | 2/28/2022 12:17 | 166.79 | ft |
| GS-AP-MW-37HR | Oxidation Reduction Potention | 2/28/2022 12:17 | -160.89 | mv |
| GS-AP-MW-37HR | pH | 2/28/2022 12:17 | 7.88 | SU |
| GS-AP-MW-37HR | Temperature | 2/28/2022 12:17 | 17.36 | C |
| GS-AP-MW-37HR | Turbidity | 2/28/2022 12:17 | 2.79 | NTU |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:09 | 560.44 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:09 | 0.4 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:09 | 123.21 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potential | 2/28/2022 13:09 | -60.28 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:09 | 6.76 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:09 | 16.99 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:09 | 4.05 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:14 | 547.25 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:14 | 0.31 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:14 | 126.93 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potential | 2/28/2022 13:14 | -71.21 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:14 | 6.88 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:14 | 17.14 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:14 | 2.69 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:19 | 531.44 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:19 | 0.27 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:19 | 129.62 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potential | 2/28/2022 13:19 | -78.43 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:19 | 6.97 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:19 | 17.17 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:19 | 2.93 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:24 | 504.61 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:24 | 0.25 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:24 | 132.84 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potential | 2/28/2022 13:24 | -82.7 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:24 | 6.99 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:24 | 16.94 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:24 | 1.63 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:29 | 479.5 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:29 | 0.23 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:29 | 134.31 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potential | 2/28/2022 13:29 | -86.03 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:29 | 7.03 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:29 | 17.03 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:29 | 1.11 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:34 | 456.83 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:34 | 0.22 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:34 | 136.4 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potential | 2/28/2022 13:34 | -88.23 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:34 | 7.05 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:34 | 17.11 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:34 | 2.14 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:39 | 435.86 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:39 | 0.21 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:39 | 138.24 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potential | 2/28/2022 13:39 | -89.7 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:39 | 7.05 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:39 | 17.02 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:39 | 1.99 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:44 | 425.37 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:44 | 0.33 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:44 | 138.02 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potential | 2/28/2022 13:44 | -89.15 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:44 | 7.07 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:44 | 17.27 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:44 | 1.89 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:49 | 414.97 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:49 | 0.34 | mg/L |

**Groundwater Field Parameters
Plant Gorgas Ash Pond**

| WELL ID | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:49 | 137.6 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potention | 2/28/2022 13:49 | -88.94 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:49 | 7.09 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:49 | 17.17 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:49 | 2.08 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:54 | 354.36 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:54 | 0.31 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:54 | 137.6 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potention | 2/28/2022 13:54 | -93.62 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:54 | 7.12 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:54 | 17.2 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:54 | 1.69 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 13:59 | 325.68 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 13:59 | 0.31 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 13:59 | 137.6 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potention | 2/28/2022 13:59 | -95.89 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 13:59 | 7.13 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 13:59 | 17.07 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 13:59 | 1.96 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 14:04 | 325.97 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 14:04 | 0.33 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 14:04 | 137.6 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potention | 2/28/2022 14:04 | -94.43 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 14:04 | 7.14 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 14:04 | 16.96 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 14:04 | 2.43 | NTU |
| GS-AP-MW-47 | Conductivity | 2/28/2022 14:09 | 321.01 | uS/cm |
| GS-AP-MW-47 | DO | 2/28/2022 14:09 | 0.32 | mg/L |
| GS-AP-MW-47 | Depth to Water Detail | 2/28/2022 14:09 | 137.6 | ft |
| GS-AP-MW-47 | Oxidation Reduction Potention | 2/28/2022 14:09 | -93.29 | mv |
| GS-AP-MW-47 | pH | 2/28/2022 14:09 | 7.15 | SU |
| GS-AP-MW-47 | Temperature | 2/28/2022 14:09 | 16.89 | C |
| GS-AP-MW-47 | Turbidity | 2/28/2022 14:09 | 2.37 | NTU |

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWGORAP_1350

Project/Site : Gorgas Ash Pond
Parrish, AL 35580

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 352

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

April 13, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and March 01, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Laura Midkiff** Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2022.04.19 16:17:23 -05'00'

Supervision: **T. Durant Maske** Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2022.04.20 14:25:17 -05'00'



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Total Metals ICP

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02831 | 718170 | WMWGORAP_1350 |
| BC02833 | 718170 | WMWGORAP_1350 |
| BC02834 | 718170 | WMWGORAP_1350 |
| BC02835 | 718170 | WMWGORAP_1350 |
| BC02836 | 718170 | WMWGORAP_1350 |
| BC02837 | 718170 | WMWGORAP_1350 |
| BC02838 | 718170 | WMWGORAP_1350 |
| BC03236 | 719420 | WMWGORAP_1350 |
| BC03237 | 719420 | WMWGORAP_1350 |
| BC03238 | 719420 | WMWGORAP_1350 |
| BC03239 | 719420 | WMWGORAP_1350 |
| BC03240 | 719420 | WMWGORAP_1350 |
| BC03241 | 719420 | WMWGORAP_1350 |
| BC03242 | 719420 | WMWGORAP_1350 |
| BC03243 | 719420 | WMWGORAP_1350 |
| BC03244 | 719420 | WMWGORAP_1350 |
| BC03245 | 719420 | WMWGORAP_1350 |
| BC03246 | 719421 | WMWGORAP_1350 |
| BC03247 | 719421 | WMWGORAP_1350 |
| BC03248 | 719421 | WMWGORAP_1350 |
| BC03249 | 719421 | WMWGORAP_1350 |
| BC03523 | 719421 | WMWGORAP_1350 |
| BC03524 | 719421 | WMWGORAP_1350 |
| BC03525 | 719421 | WMWGORAP_1350 |
| BC03526 | 719421 | WMWGORAP_1350 |
| BC03527 | 719421 | WMWGORAP_1350 |
| BC03528 | 719421 | WMWGORAP_1350 |
| BC03529 | 719422 | WMWGORAP_1350 |
| BC03530 | 719422 | WMWGORAP_1350 |
| BC03531 | 719422 | WMWGORAP_1350 |
| BC03532 | 719422 | WMWGORAP_1350 |

Case Narrative

| | | |
|---------|--------|---------------|
| BC03533 | 719422 | WMWGORAP_1350 |
| BC03534 | 719422 | WMWGORAP_1350 |
| BC03535 | 719422 | WMWGORAP_1350 |
| BC03536 | 719422 | WMWGORAP_1350 |
| BC03537 | 719422 | WMWGORAP_1350 |
| BC03538 | 719422 | WMWGORAP_1350 |
| BC03953 | 719423 | WMWGORAP_1350 |
| BC03954 | 719423 | WMWGORAP_1350 |
| BC03955 | 719423 | WMWGORAP_1350 |
| BC03956 | 719423 | WMWGORAP_1350 |
| BC03957 | 719423 | WMWGORAP_1350 |
| BC03958 | 719423 | WMWGORAP_1350 |
| BC03959 | 719423 | WMWGORAP_1350 |
| BC03960 | 719423 | WMWGORAP_1350 |
| BC03961 | 719423 | WMWGORAP_1350 |
| BC03962 | 719423 | WMWGORAP_1350 |
| BC03963 | 719772 | WMWGORAP_1350 |
| BC03964 | 719772 | WMWGORAP_1350 |
| BC03965 | 719772 | WMWGORAP_1350 |
| BC03966 | 719772 | WMWGORAP_1350 |
| BC03967 | 719772 | WMWGORAP_1350 |
| BC03968 | 719772 | WMWGORAP_1350 |
| BC03969 | 719772 | WMWGORAP_1350 |
| BC03970 | 719772 | WMWGORAP_1350 |
| BC03971 | 719772 | WMWGORAP_1350 |
| BC03972 | 719772 | WMWGORAP_1350 |
| BC03973 | 719773 | WMWGORAP_1350 |
| BC04376 | 719773 | WMWGORAP_1350 |
| BC04377 | 719773 | WMWGORAP_1350 |
| BC04378 | 719773 | WMWGORAP_1350 |
| BC04379 | 719773 | WMWGORAP_1350 |
| BC04380 | 719773 | WMWGORAP_1350 |
| BC04381 | 719773 | WMWGORAP_1350 |
| BC04382 | 719773 | WMWGORAP_1350 |
| BC04383 | 719773 | WMWGORAP_1350 |
| BC04384 | 719773 | WMWGORAP_1350 |
| BC04385 | 719774 | WMWGORAP_1350 |
| BC04386 | 719774 | WMWGORAP_1350 |

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BC02838, BC03245, BC03528, & BC03962 Sodium MS/MSD spike levels were <30% of the sample concentrations.
 - BC04384 Sodium & Silicon MS/MSD spike levels were <30% of the sample concentrations.
 - BC04386 Calcium, Sodium, & Magnesium MS/MSD spike levels were <30% of the sample concentrations.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------------------|------------------------|
| BC02831 | Sodium | 10.15 |
| BC02834 | Sodium | 10.15 |
| BC02835 | Calcium, Sodium | 10.15 |
| BC02836 | Sodium | 10.15 |
| BC02837 | Sodium | 20.3 |
| BC02838 | Sodium | 10.15 |
| BC03236 | Iron, Sodium | 20.3 |
| BC03237 | Sodium | 20.3 |
| BC03238 | Sodium | 20.3 |
| BC03239 | Sodium | 20.3 |
| BC03240 | Calcium, Iron | 20.3 |
| BC03241 | Calcium, Iron | 20.3 |
| BC03242 | Calcium | 20.3 |
| BC03243 | Calcium, Iron | 20.3 |
| BC03244 | Calcium, Iron | 20.3 |
| BC03245 | Sodium | 20.3 |
| BC03246 | Sodium | 20.3 |
| BC03247 | Sodium | 20.3 |
| BC03249 | Sodium | 20.3 |
| BC03523 | Sodium | 20.3 |
| BC03525 | Calcium, Sodium | 20.3 |
| BC03527 | Sodium, Silicon | 20.3 |
| BC03528 | Sodium | 20.3 |
| BC03529 | Sodium | 20.3 |
| BC03530 | Calcium | 20.3 |
| BC03531 | Calcium | 20.3 |
| BC03532 | Calcium | 20.3 |
| BC03533 | Calcium, Magnesium, Sodium | 20.3 |
| BC03534 | Sodium | 20.3 |
| BC03535 | Calcium, Iron, Magnesium | 20.3 |
| BC03537 | Sodium | 20.3 |
| BC03953 | Sodium | 20.3 |
| BC03954 | Calcium | 20.3 |
| BC03955 | Sodium | 20.3 |
| BC03956 | Sodium | 20.3 |
| BC03960 | Sodium | 20.3 |
| BC03961 | Sodium | 20.3 |
| BC03962 | Sodium | 20.3 |
| BC03963 | Calcium, Sodium | 10.15 |

Case Narrative

| | | |
|---------|-----------------|-------|
| BC03964 | Sodium | 10.15 |
| BC03965 | Calcium, Sodium | 10.15 |
| BC03966 | Calcium, Sodium | 10.15 |
| BC03967 | Sodium | 10.15 |
| BC03968 | Calcium | 10.15 |
| BC03970 | Sodium | 10.15 |
| BC03971 | Sodium | 10.15 |
| BC03973 | Calcium, Sodium | 10.15 |
| BC04376 | Sodium | 10.15 |
| BC04378 | Sodium | 10.15 |
| BC04380 | Sodium | 10.15 |
| BC04382 | Calcium, Sodium | 10.15 |
| BC04384 | Sodium | 10.15 |
| BC04385 | Calcium | 10.15 |
| BC04386 | Calcium, Sodium | 10.15 |

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02831 | 718131 | WMWGORAP_1350 |
| BC02832 | 718131 | WMWGORAP_1350 |
| BC02833 | 718131 | WMWGORAP_1350 |
| BC02834 | 718131 | WMWGORAP_1350 |
| BC02835 | 718131 | WMWGORAP_1350 |
| BC02836 | 718131 | WMWGORAP_1350 |
| BC02837 | 718131 | WMWGORAP_1350 |
| BC02838 | 718131 | WMWGORAP_1350 |
| BC03236 | 719356 | WMWGORAP_1350 |
| BC03237 | 719356 | WMWGORAP_1350 |
| BC03238 | 719356 | WMWGORAP_1350 |
| BC03239 | 719356 | WMWGORAP_1350 |
| BC03240 | 719356 | WMWGORAP_1350 |
| BC03241 | 719356 | WMWGORAP_1350 |
| BC03242 | 719356 | WMWGORAP_1350 |
| BC03243 | 719356 | WMWGORAP_1350 |
| BC03244 | 719356 | WMWGORAP_1350 |
| BC03245 | 719356 | WMWGORAP_1350 |
| BC03246 | 719357 | WMWGORAP_1350 |
| BC03247 | 719357 | WMWGORAP_1350 |
| BC03249 | 719357 | WMWGORAP_1350 |
| BC03523 | 719357 | WMWGORAP_1350 |
| BC03524 | 719357 | WMWGORAP_1350 |
| BC03525 | 719357 | WMWGORAP_1350 |
| BC03527 | 719357 | WMWGORAP_1350 |
| BC03528 | 719357 | WMWGORAP_1350 |
| BC03529 | 719357 | WMWGORAP_1350 |
| BC03530 | 719357 | WMWGORAP_1350 |
| BC03531 | 719358 | WMWGORAP_1350 |
| BC03532 | 719358 | WMWGORAP_1350 |
| BC03533 | 719358 | WMWGORAP_1350 |

| | | |
|---------|--------|---------------|
| BC03534 | 719358 | WMWGORAP_1350 |
| BC03535 | 719358 | WMWGORAP_1350 |
| BC03536 | 719358 | WMWGORAP_1350 |
| BC03537 | 719358 | WMWGORAP_1350 |
| BC03953 | 719358 | WMWGORAP_1350 |
| BC03954 | 719358 | WMWGORAP_1350 |
| BC03955 | 719358 | WMWGORAP_1350 |
| BC03956 | 719359 | WMWGORAP_1350 |
| BC03958 | 719359 | WMWGORAP_1350 |
| BC03959 | 719359 | WMWGORAP_1350 |
| BC03960 | 719359 | WMWGORAP_1350 |
| BC03961 | 719359 | WMWGORAP_1350 |
| BC03962 | 719359 | WMWGORAP_1350 |
| BC03963 | 719359 | WMWGORAP_1350 |
| BC03964 | 719359 | WMWGORAP_1350 |
| BC03965 | 719359 | WMWGORAP_1350 |
| BC03966 | 719359 | WMWGORAP_1350 |
| BC03967 | 719779 | WMWGORAP_1350 |
| BC03968 | 719779 | WMWGORAP_1350 |
| BC03970 | 719779 | WMWGORAP_1350 |
| BC03971 | 719779 | WMWGORAP_1350 |
| BC03973 | 719779 | WMWGORAP_1350 |
| BC04376 | 719779 | WMWGORAP_1350 |
| BC04377 | 719779 | WMWGORAP_1350 |
| BC04378 | 719779 | WMWGORAP_1350 |
| BC04379 | 719779 | WMWGORAP_1350 |
| BC04380 | 719779 | WMWGORAP_1350 |
| BC04381 | 719780 | WMWGORAP_1350 |
| BC04382 | 719780 | WMWGORAP_1350 |
| BC04384 | 719780 | WMWGORAP_1350 |
| BC04385 | 719780 | WMWGORAP_1350 |
| BC04386 | 719780 | WMWGORAP_1350 |

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BC02838 Sodium & Silicon MS/MSD spike levels were <30% of the sample concentrations.
 - BC03245 & BC03955 Sodium MS/MSD spike levels were <30% of the sample concentrations.
 - BC03530 & BC04386 Calcium MS/MSD spike levels were <30% of the sample concentrations.
 - BC03966 Sodium and Calcium MS/MSD spike levels were <30% of the sample concentrations.
- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------------------|------------------------|
| BC02831 | Sodium | 10.15 |
| BC02832 | Sodium | 10.15 |
| BC02834 | Sodium | 10.15 |
| BC02835 | Calcium, Sodium | 10.15 |
| BC02836 | Sodium | 10.15 |
| BC02837 | Calcium, Sodium | 20.3 |
| BC02838 | Sodium | 10.15 |
| BC03236 | Iron, Sodium | 20.3 |
| BC03237 | Sodium | 20.3 |
| BC03238 | Sodium | 20.3 |
| BC03239 | Sodium | 20.3 |
| BC03240 | Calcium, Iron | 20.3 |
| BC03241 | Calcium, Iron | 20.3 |
| BC03242 | Calcium | 20.3 |
| BC03243 | Calcium, Iron | 20.3 |
| BC03244 | Calcium, Iron | 20.3 |
| BC03245 | Sodium | 20.3 |
| BC03246 | Sodium | 20.3 |
| BC03247 | Sodium | 20.3 |
| BC03249 | Sodium | 20.3 |
| BC03523 | Sodium | 20.3 |
| BC03525 | Calcium, Sodium | 20.3 |
| BC03527 | Sodium, Silicon | 20.3 |
| BC03528 | Sodium | 20.3 |
| BC03529 | Sodium | 20.3 |
| BC03530 | Calcium | 20.3 |
| BC03531 | Calcium | 20.3 |
| BC03532 | Calcium | 20.3 |
| BC03533 | Calcium, Magnesium, Sodium | 20.3 |
| BC03534 | Sodium | 20.3 |
| BC03535 | Calcium, Iron, Magnesium | 20.3 |
| BC03537 | Sodium | 20.3 |
| BC03953 | Sodium | 20.3 |
| BC03954 | Calcium | 20.3 |
| BC03955 | Sodium | 20.3 |
| BC03956 | Sodium | 20.3 |
| BC03960 | Sodium | 20.3 |
| BC03961 | Sodium | 20.3 |

Case Narrative

| | | |
|---------|-----------------|-------|
| BC03962 | Sodium | 20.3 |
| BC03963 | Calcium, Sodium | 20.3 |
| BC03964 | Sodium | 20.3 |
| BC03965 | Calcium, Sodium | 20.3 |
| BC03966 | Calcium, Sodium | 20.3 |
| BC03967 | Sodium | 10.15 |
| BC03968 | Calcium | 10.15 |
| BC03970 | Sodium | 10.15 |
| BC03971 | Sodium | 10.15 |
| BC03973 | Calcium, Sodium | 10.15 |
| BC04376 | Sodium | 10.15 |
| BC04378 | Sodium | 10.15 |
| BC04380 | Calcium, Sodium | 10.15 |
| BC04381 | Calcium | 10.15 |
| BC04382 | Calcium, Sodium | 10.15 |
| BC04384 | Sodium | 10.15 |
| BC04385 | Calcium | 10.15 |
| BC04386 | Calcium, Sodium | 10.15 |

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02831 | 718985 | WMWGORAP_1350 |
| BC02833 | 718985 | WMWGORAP_1350 |
| BC02834 | 718985 | WMWGORAP_1350 |
| BC02835 | 718985 | WMWGORAP_1350 |
| BC02836 | 718985 | WMWGORAP_1350 |
| BC02837 | 718985 | WMWGORAP_1350 |
| BC02838 | 718985 | WMWGORAP_1350 |
| BC03236 | 718985 | WMWGORAP_1350 |
| BC03237 | 718985 | WMWGORAP_1350 |
| BC03238 | 718985 | WMWGORAP_1350 |
| BC03239 | 718986 | WMWGORAP_1350 |
| BC03240 | 718986 | WMWGORAP_1350 |
| BC03241 | 718986 | WMWGORAP_1350 |
| BC03242 | 718986 | WMWGORAP_1350 |
| BC03243 | 718986 | WMWGORAP_1350 |
| BC03244 | 718986 | WMWGORAP_1350 |
| BC03245 | 718986 | WMWGORAP_1350 |
| BC03246 | 718986 | WMWGORAP_1350 |
| BC03247 | 718986 | WMWGORAP_1350 |
| BC03248 | 718986 | WMWGORAP_1350 |
| BC03249 | 718987 | WMWGORAP_1350 |
| BC03523 | 719005 | WMWGORAP_1350 |
| BC03524 | 719005 | WMWGORAP_1350 |
| BC03525 | 719005 | WMWGORAP_1350 |
| BC03526 | 719005 | WMWGORAP_1350 |
| BC03527 | 719005 | WMWGORAP_1350 |
| BC03528 | 719005 | WMWGORAP_1350 |
| BC03529 | 719005 | WMWGORAP_1350 |
| BC03530 | 719005 | WMWGORAP_1350 |
| BC03531 | 719005 | WMWGORAP_1350 |
| BC03532 | 719005 | WMWGORAP_1350 |

Case Narrative

| | | |
|---------|--------|---------------|
| BC03533 | 719006 | WMWGORAP_1350 |
| BC03534 | 719006 | WMWGORAP_1350 |
| BC03535 | 719006 | WMWGORAP_1350 |
| BC03536 | 719006 | WMWGORAP_1350 |
| BC03537 | 719006 | WMWGORAP_1350 |
| BC03538 | 719006 | WMWGORAP_1350 |
| BC03953 | 720472 | WMWGORAP_1350 |
| BC03954 | 720472 | WMWGORAP_1350 |
| BC03955 | 720472 | WMWGORAP_1350 |
| BC03956 | 720472 | WMWGORAP_1350 |
| BC03957 | 720472 | WMWGORAP_1350 |
| BC03958 | 720472 | WMWGORAP_1350 |
| BC03959 | 720472 | WMWGORAP_1350 |
| BC03960 | 720472 | WMWGORAP_1350 |
| BC03961 | 720472 | WMWGORAP_1350 |
| BC03962 | 720472 | WMWGORAP_1350 |
| BC03963 | 720473 | WMWGORAP_1350 |
| BC03964 | 720473 | WMWGORAP_1350 |
| BC03965 | 720473 | WMWGORAP_1350 |
| BC03966 | 720473 | WMWGORAP_1350 |
| BC03967 | 720473 | WMWGORAP_1350 |
| BC03968 | 720473 | WMWGORAP_1350 |
| BC03969 | 720473 | WMWGORAP_1350 |
| BC03970 | 720473 | WMWGORAP_1350 |
| BC03971 | 720473 | WMWGORAP_1350 |
| BC03972 | 720473 | WMWGORAP_1350 |
| BC03973 | 720474 | WMWGORAP_1350 |
| BC04376 | 720360 | WMWGORAP_1350 |
| BC04377 | 720360 | WMWGORAP_1350 |
| BC04378 | 720360 | WMWGORAP_1350 |
| BC04379 | 720360 | WMWGORAP_1350 |
| BC04380 | 720360 | WMWGORAP_1350 |
| BC04381 | 720360 | WMWGORAP_1350 |
| BC04382 | 720360 | WMWGORAP_1350 |
| BC04383 | 720360 | WMWGORAP_1350 |
| BC04384 | 720360 | WMWGORAP_1350 |
| BC04385 | 720360 | WMWGORAP_1350 |
| BC04386 | 720361 | WMWGORAP_1350 |

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC03532 Barium MS/MSD spike levels were <30% of the sample concentrations.
 - BC03973 Aluminum MS/MSD recoveries were outside of the specification limits. The sample bottle had visible sediment. Matrix issue is suspected.
- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC03240 | Manganese | 10.15 |
| BC03241 | Manganese | 10.15 |
| BC03243 | Manganese | 10.15 |
| BC03244 | Manganese | 10.15 |
| BC03525 | Aluminum | 10.15 |
| BC03968 | Barium | 5.075 |

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02831 | 718631 | WMWGORAP_1350 |
| BC02832 | 718631 | WMWGORAP_1350 |
| BC02833 | 718631 | WMWGORAP_1350 |
| BC02834 | 718631 | WMWGORAP_1350 |
| BC02835 | 718631 | WMWGORAP_1350 |
| BC02836 | 718631 | WMWGORAP_1350 |
| BC02837 | 718631 | WMWGORAP_1350 |
| BC02838 | 718631 | WMWGORAP_1350 |
| BC03236 | 718631 | WMWGORAP_1350 |
| BC03237 | 718631 | WMWGORAP_1350 |
| BC03238 | 718632 | WMWGORAP_1350 |
| BC03239 | 718632 | WMWGORAP_1350 |
| BC03240 | 718632 | WMWGORAP_1350 |
| BC03241 | 718632 | WMWGORAP_1350 |
| BC03242 | 718632 | WMWGORAP_1350 |
| BC03243 | 718632 | WMWGORAP_1350 |
| BC03244 | 718632 | WMWGORAP_1350 |
| BC03245 | 718632 | WMWGORAP_1350 |
| BC03246 | 718632 | WMWGORAP_1350 |
| BC03247 | 718632 | WMWGORAP_1350 |
| BC03249 | 718661 | WMWGORAP_1350 |
| BC03523 | 719007 | WMWGORAP_1350 |
| BC03524 | 719007 | WMWGORAP_1350 |
| BC03525 | 719007 | WMWGORAP_1350 |
| BC03527 | 719007 | WMWGORAP_1350 |
| BC03528 | 719007 | WMWGORAP_1350 |
| BC03529 | 719007 | WMWGORAP_1350 |
| BC03530 | 719007 | WMWGORAP_1350 |
| BC03531 | 719007 | WMWGORAP_1350 |
| BC03532 | 719007 | WMWGORAP_1350 |
| BC03533 | 719007 | WMWGORAP_1350 |

| | | |
|---------|--------|---------------|
| BC03534 | 719008 | WMWGORAP_1350 |
| BC03535 | 719008 | WMWGORAP_1350 |
| BC03536 | 719008 | WMWGORAP_1350 |
| BC03537 | 719008 | WMWGORAP_1350 |
| BC03953 | 720389 | WMWGORAP_1350 |
| BC03954 | 720389 | WMWGORAP_1350 |
| BC03955 | 720389 | WMWGORAP_1350 |
| BC03956 | 720389 | WMWGORAP_1350 |
| BC03958 | 720389 | WMWGORAP_1350 |
| BC03959 | 720389 | WMWGORAP_1350 |
| BC03960 | 720389 | WMWGORAP_1350 |
| BC03961 | 720389 | WMWGORAP_1350 |
| BC03962 | 720389 | WMWGORAP_1350 |
| BC03963 | 720389 | WMWGORAP_1350 |
| BC03964 | 720390 | WMWGORAP_1350 |
| BC03965 | 720390 | WMWGORAP_1350 |
| BC03966 | 720390 | WMWGORAP_1350 |
| BC03967 | 720390 | WMWGORAP_1350 |
| BC03968 | 720390 | WMWGORAP_1350 |
| BC03970 | 720390 | WMWGORAP_1350 |
| BC03971 | 720390 | WMWGORAP_1350 |
| BC03973 | 720390 | WMWGORAP_1350 |
| BC04376 | 720276 | WMWGORAP_1350 |
| BC04377 | 720276 | WMWGORAP_1350 |
| BC04378 | 720276 | WMWGORAP_1350 |
| BC04379 | 720276 | WMWGORAP_1350 |
| BC04380 | 720276 | WMWGORAP_1350 |
| BC04381 | 720276 | WMWGORAP_1350 |
| BC04382 | 720276 | WMWGORAP_1350 |
| BC04384 | 720276 | WMWGORAP_1350 |
| BC04385 | 720276 | WMWGORAP_1350 |
| BC04386 | 720276 | WMWGORAP_1350 |

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC03963 Selenium MS/MSD recoveries were outside of the specification limits.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC03240 | Manganese | 10.15 |
| BC03241 | Manganese | 10.15 |
| BC03243 | Manganese | 10.15 |
| BC03244 | Manganese | 10.15 |
| BC03525 | Aluminum | 10.15 |
| BC03968 | Barium | 5.075 |

8. The raw data results are shown with dilution factors included.

Total Mercury

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02831 | 717796 | WMWGORAP_1350 |
| BC02833 | 717796 | WMWGORAP_1350 |
| BC02834 | 717796 | WMWGORAP_1350 |
| BC02835 | 717796 | WMWGORAP_1350 |
| BC02836 | 717796 | WMWGORAP_1350 |
| BC02837 | 717796 | WMWGORAP_1350 |
| BC02838 | 717796 | WMWGORAP_1350 |
| BC03236 | 718857 | WMWGORAP_1350 |
| BC03237 | 718857 | WMWGORAP_1350 |
| BC03238 | 718857 | WMWGORAP_1350 |
| BC03239 | 718857 | WMWGORAP_1350 |
| BC03240 | 718857 | WMWGORAP_1350 |
| BC03241 | 718857 | WMWGORAP_1350 |
| BC03242 | 718857 | WMWGORAP_1350 |
| BC03243 | 718857 | WMWGORAP_1350 |
| BC03244 | 718857 | WMWGORAP_1350 |
| BC03245 | 718857 | WMWGORAP_1350 |
| BC03246 | 718858 | WMWGORAP_1350 |
| BC03247 | 718858 | WMWGORAP_1350 |
| BC03248 | 718858 | WMWGORAP_1350 |
| BC03249 | 718858 | WMWGORAP_1350 |
| BC03523 | 718858 | WMWGORAP_1350 |
| BC03524 | 718858 | WMWGORAP_1350 |
| BC03525 | 718858 | WMWGORAP_1350 |
| BC03526 | 718858 | WMWGORAP_1350 |
| BC03527 | 718858 | WMWGORAP_1350 |
| BC03528 | 718858 | WMWGORAP_1350 |
| BC03529 | 718859 | WMWGORAP_1350 |
| BC03530 | 718859 | WMWGORAP_1350 |
| BC03531 | 718859 | WMWGORAP_1350 |
| BC03532 | 718859 | WMWGORAP_1350 |

Case Narrative

| | | |
|---------|--------|---------------|
| BC03533 | 718859 | WMWGORAP_1350 |
| BC03534 | 718859 | WMWGORAP_1350 |
| BC03535 | 718859 | WMWGORAP_1350 |
| BC03536 | 718859 | WMWGORAP_1350 |
| BC03537 | 718859 | WMWGORAP_1350 |
| BC03538 | 718859 | WMWGORAP_1350 |
| BC03953 | 719470 | WMWGORAP_1350 |
| BC03954 | 719470 | WMWGORAP_1350 |
| BC03955 | 719470 | WMWGORAP_1350 |
| BC03956 | 719470 | WMWGORAP_1350 |
| BC03957 | 719470 | WMWGORAP_1350 |
| BC03958 | 719470 | WMWGORAP_1350 |
| BC03959 | 719470 | WMWGORAP_1350 |
| BC03960 | 719470 | WMWGORAP_1350 |
| BC03961 | 719470 | WMWGORAP_1350 |
| BC03962 | 719470 | WMWGORAP_1350 |
| BC03963 | 719471 | WMWGORAP_1350 |
| BC03964 | 719471 | WMWGORAP_1350 |
| BC03965 | 719471 | WMWGORAP_1350 |
| BC03966 | 719471 | WMWGORAP_1350 |
| BC03967 | 719471 | WMWGORAP_1350 |
| BC03968 | 719471 | WMWGORAP_1350 |
| BC03969 | 719471 | WMWGORAP_1350 |
| BC03970 | 719471 | WMWGORAP_1350 |
| BC03971 | 719471 | WMWGORAP_1350 |
| BC03972 | 719471 | WMWGORAP_1350 |
| BC03973 | 719472 | WMWGORAP_1350 |
| BC04376 | 719658 | WMWGORAP_1350 |
| BC04377 | 719658 | WMWGORAP_1350 |
| BC04378 | 719658 | WMWGORAP_1350 |
| BC04379 | 719658 | WMWGORAP_1350 |
| BC04380 | 719658 | WMWGORAP_1350 |
| BC04381 | 719658 | WMWGORAP_1350 |
| BC04382 | 719658 | WMWGORAP_1350 |
| BC04383 | 719658 | WMWGORAP_1350 |
| BC04384 | 719658 | WMWGORAP_1350 |
| BC04385 | 719658 | WMWGORAP_1350 |
| BC04386 | 719659 | WMWGORAP_1350 |

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution.

Dissolved Mercury

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02832 | 718434 | WMWGORAP_1350 |

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution.

Revision 5

TDS

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02831 | 717837 | WMWGORAP_1350 |
| BC02832 | 717837 | WMWGORAP_1350 |
| BC02833 | 717837 | WMWGORAP_1350 |
| BC02834 | 717837 | WMWGORAP_1350 |
| BC02835 | 717837 | WMWGORAP_1350 |
| BC02836 | 717837 | WMWGORAP_1350 |
| BC02837 | 717837 | WMWGORAP_1350 |
| BC02838 | 717837 | WMWGORAP_1350 |
| BC03236 | 718468 | WMWGORAP_1350 |
| BC03237 | 718468 | WMWGORAP_1350 |
| BC03238 | 718468 | WMWGORAP_1350 |
| BC03239 | 718468 | WMWGORAP_1350 |
| BC03240 | 718470 | WMWGORAP_1350 |
| BC03241 | 718470 | WMWGORAP_1350 |
| BC03242 | 718470 | WMWGORAP_1350 |
| BC03243 | 718470 | WMWGORAP_1350 |
| BC03244 | 718470 | WMWGORAP_1350 |
| BC03245 | 718470 | WMWGORAP_1350 |
| BC03246 | 718470 | WMWGORAP_1350 |
| BC03247 | 718470 | WMWGORAP_1350 |
| BC03248 | 718470 | WMWGORAP_1350 |
| BC03249 | 718470 | WMWGORAP_1350 |
| BC03523 | 718802 | WMWGORAP_1350 |
| BC03524 | 718802 | WMWGORAP_1350 |
| BC03525 | 718802 | WMWGORAP_1350 |
| BC03526 | 718803 | WMWGORAP_1350 |
| BC03527 | 718803 | WMWGORAP_1350 |
| BC03528 | 718803 | WMWGORAP_1350 |
| BC03529 | 719119 | WMWGORAP_1350 |
| BC03530 | 718803 | WMWGORAP_1350 |
| BC03531 | 718803 | WMWGORAP_1350 |

Case Narrative

| | | |
|---------|-----------------|---------------|
| BC03532 | 718803 | WMWGORAP_1350 |
| BC03533 | 718803 | WMWGORAP_1350 |
| BC03534 | 718803 & 719591 | WMWGORAP_1350 |
| BC03535 | 718803 | WMWGORAP_1350 |
| BC03536 | 718803 | WMWGORAP_1350 |
| BC03537 | 719119 | WMWGORAP_1350 |
| BC03538 | 719119 | WMWGORAP_1350 |
| BC03953 | 719198 | WMWGORAP_1350 |
| BC03954 | 719198 | WMWGORAP_1350 |
| BC03955 | 719198 | WMWGORAP_1350 |
| BC03956 | 719198 | WMWGORAP_1350 |
| BC03957 | 719198 | WMWGORAP_1350 |
| BC03958 | 719198 | WMWGORAP_1350 |
| BC03959 | 719198 | WMWGORAP_1350 |
| BC03960 | 719198 | WMWGORAP_1350 |
| BC03961 | 719198 | WMWGORAP_1350 |
| BC03962 | 719198 | WMWGORAP_1350 |
| BC03963 | 719199 | WMWGORAP_1350 |
| BC03964 | 719199 | WMWGORAP_1350 |
| BC03965 | 719199 | WMWGORAP_1350 |
| BC03966 | 719199 | WMWGORAP_1350 |
| BC03967 | 719199 | WMWGORAP_1350 |
| BC03968 | 719199 | WMWGORAP_1350 |
| BC03969 | 719199 | WMWGORAP_1350 |
| BC03970 | 719199 | WMWGORAP_1350 |
| BC03971 | 719199 | WMWGORAP_1350 |
| BC03972 | 719199 | WMWGORAP_1350 |
| BC03973 | 719597 | WMWGORAP_1350 |
| BC04376 | 719722 | WMWGORAP_1350 |
| BC04377 | 719722 | WMWGORAP_1350 |
| BC04378 | 719722 | WMWGORAP_1350 |
| BC04379 | 719722 | WMWGORAP_1350 |
| BC04380 | 719722 | WMWGORAP_1350 |
| BC04381 | 719722 | WMWGORAP_1350 |
| BC04382 | 719722 | WMWGORAP_1350 |
| BC04383 | 719722 | WMWGORAP_1350 |
| BC04384 | 719722 | WMWGORAP_1350 |
| BC04385 | 719722 | WMWGORAP_1350 |
| BC04386 | 719723 | WMWGORAP_1350 |

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times, except for the following:
 - a. BC03534 was originally analyzed within hold time. Upon data review, an analytical error was discovered. The sample was rerun in a separate batch (719591) out of hold time.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$, except for the following:
 - Batch 719591 was analyzed without a sample duplicate.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC03248
 - BC03526
 - BC03538
 - BC03957
 - BC03969
 - BC03972
 - BC04383

Anions

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|--------------------------|-------------------|
| BC02831 | 717990, 718048, & 718271 | WMWGORAP_1350 |
| BC02832 | 717990, 718048, & 718271 | WMWGORAP_1350 |
| BC02833 | 717990, 718048, & 718271 | WMWGORAP_1350 |
| BC02834 | 717990, 718048, & 718271 | WMWGORAP_1350 |
| BC02835 | 717990, 718048, & 718271 | WMWGORAP_1350 |
| BC02836 | 717990, 718048, & 718271 | WMWGORAP_1350 |
| BC02837 | 717990, 718048, & 718271 | WMWGORAP_1350 |
| BC02838 | 717990, 718048, & 718271 | WMWGORAP_1350 |
| BC03236 | 718483, 718502, & 719081 | WMWGORAP_1350 |
| BC03237 | 718483, 718502, & 719081 | WMWGORAP_1350 |
| BC03238 | 718483, 718502, & 719081 | WMWGORAP_1350 |
| BC03239 | 718483, 718502, & 719081 | WMWGORAP_1350 |
| BC03240 | 718483, 718502, & 719081 | WMWGORAP_1350 |
| BC03241 | 718483, 718502, & 719081 | WMWGORAP_1350 |
| BC03242 | 718483, 718502, & 719081 | WMWGORAP_1350 |
| BC03243 | 718483, 718503, & 719081 | WMWGORAP_1350 |
| BC03244 | 718483, 718503, & 719081 | WMWGORAP_1350 |
| BC03245 | 718483, 718503, & 719081 | WMWGORAP_1350 |
| BC03246 | 718484, 718503, & 719082 | WMWGORAP_1350 |
| BC03247 | 718484, 718503, & 719082 | WMWGORAP_1350 |
| BC03248 | 718484, 718503, & 719082 | WMWGORAP_1350 |
| BC03249 | 718484, 718503, & 719082 | WMWGORAP_1350 |
| BC03523 | 718893, 719115, & 719082 | WMWGORAP_1350 |
| BC03524 | 718893, 719115, & 719082 | WMWGORAP_1350 |
| BC03525 | 718893, 719115, & 719082 | WMWGORAP_1350 |
| BC03526 | 718893, 719115, & 719082 | WMWGORAP_1350 |
| BC03527 | 718893, 719115, & 719082 | WMWGORAP_1350 |
| BC03528 | 718893, 719115, & 719082 | WMWGORAP_1350 |
| BC03529 | 718893, 719115, & 719083 | WMWGORAP_1350 |
| BC03530 | 718893, 719115, & 719083 | WMWGORAP_1350 |
| BC03531 | 718893, 719115, & 719083 | WMWGORAP_1350 |

Case Narrative

| | | |
|---------|--------------------------|---------------|
| BC03532 | 718893, 719115, & 719083 | WMWGORAP_1350 |
| BC03533 | 718894, 719116, & 719083 | WMWGORAP_1350 |
| BC03534 | 718894, 719116, & 719083 | WMWGORAP_1350 |
| BC03535 | 718894, 719116, & 719083 | WMWGORAP_1350 |
| BC03536 | 718894, 719116, & 719083 | WMWGORAP_1350 |
| BC03537 | 718894, 719116, & 719083 | WMWGORAP_1350 |
| BC03538 | 718894, 719116, & 719083 | WMWGORAP_1350 |
| BC03953 | 719314, 719474, & 719826 | WMWGORAP_1350 |
| BC03954 | 719314, 719474, & 719826 | WMWGORAP_1350 |
| BC03955 | 719314, 719474, & 719826 | WMWGORAP_1350 |
| BC03956 | 719314, 719474, & 719826 | WMWGORAP_1350 |
| BC03957 | 719314, 719474, & 719826 | WMWGORAP_1350 |
| BC03958 | 719314, 719474, & 719826 | WMWGORAP_1350 |
| BC03959 | 719314, 719474, & 719826 | WMWGORAP_1350 |
| BC03960 | 719314, 719474, & 719826 | WMWGORAP_1350 |
| BC03961 | 719314, 719474, & 719826 | WMWGORAP_1350 |
| BC03962 | 719314, 719474, & 719826 | WMWGORAP_1350 |
| BC03963 | 719315, 719475, & 719827 | WMWGORAP_1350 |
| BC03964 | 719315, 719475, & 719827 | WMWGORAP_1350 |
| BC03965 | 719315, 719475, & 719827 | WMWGORAP_1350 |
| BC03966 | 719315, 719475, & 719827 | WMWGORAP_1350 |
| BC03967 | 719315, 719475, & 719827 | WMWGORAP_1350 |
| BC03968 | 719315, 719475, & 719827 | WMWGORAP_1350 |
| BC03969 | 719315, 719475, & 719827 | WMWGORAP_1350 |
| BC03970 | 719315, 719475, & 719827 | WMWGORAP_1350 |
| BC03971 | 719315, 719475, & 719827 | WMWGORAP_1350 |
| BC03972 | 719315, 719475, & 719827 | WMWGORAP_1350 |
| BC03973 | 719316, 719476, & 719828 | WMWGORAP_1350 |
| BC04376 | 719824, 719775, & 719828 | WMWGORAP_1350 |
| BC04377 | 719824, 719775, & 719828 | WMWGORAP_1350 |
| BC04378 | 719824, 719775, & 719828 | WMWGORAP_1350 |
| BC04379 | 719824, 719775, & 719828 | WMWGORAP_1350 |
| BC04380 | 719824, 719775, & 719828 | WMWGORAP_1350 |
| BC04381 | 719824, 719775, & 719828 | WMWGORAP_1350 |
| BC04382 | 719824, 719775, & 719828 | WMWGORAP_1350 |
| BC04383 | 719824, 719775, & 719828 | WMWGORAP_1350 |
| BC04384 | 719824, 719775, & 719828 | WMWGORAP_1350 |
| BC04385 | 719824, 719775, & 719829 | WMWGORAP_1350 |
| BC04386 | 719825, 719776, & 719829 | WMWGORAP_1350 |

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy was met, except for the following:
 - BC04386 Sulfate matrix spike recovery was outside of the specification limit.
 - A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met, except for the following:
 - BC04386 Fluoride precision was invalid due to sample concentration.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Case Narrative

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|--------------------|------------------------|
| BC02831 | Sulfate | 8 |
| BC02832 | Sulfate | 8 |
| BC02833 | Sulfate | 8 |
| BC02834 | Chloride | 8 |
| BC02835 | Sulfate | 16 |
| BC02836 | Chloride & Sulfate | 8 & 16 |
| BC02837 | Chloride & Sulfate | 40 & 25 |
| BC02838 | Chloride | 5 |
| BC03236 | Sulfate | 4 |
| BC03239 | Chloride & Sulfate | 5 & 5 |
| BC03240 | Chloride & Sulfate | 2 & 8 |
| BC03241 | Chloride & Sulfate | 2 & 8 |
| BC03242 | Sulfate | 2 |
| BC03243 | Sulfate | 20 |
| BC03244 | Sulfate | 20 |
| BC03247 | Sulfate | 2 |
| BC03249 | Chloride | 4 |
| BC03528 | Chloride & Sulfate | 8 & 16 |
| BC03529 | Chloride & Sulfate | 8 & 8 |
| BC03530 | Sulfate | 8 |
| BC03533 | Sulfate | 40 |
| BC03535 | Sulfate | 25 |
| BC03537 | Sulfate | 4 |
| BC03953 | Chloride & Sulfate | 10 & 20 |
| BC03954 | Sulfate | 2 |
| BC03955 | Chloride & Sulfate | 8 & 2 |
| BC03956 | Chloride & Sulfate | 16 & 16 |
| BC03961 | Chloride & Sulfate | 4 & 20 |
| BC03962 | Chloride & Sulfate | 25 & 20 |
| BC03964 | Chloride | 3 |
| BC03970 | Chloride | 3 |
| BC03971 | Chloride & Sulfate | 4 & 20 |
| BC03973 | Sulfate | 16 |
| BC04376 | Chloride | 2 |
| BC04378 | Chloride | 2 |
| BC04380 | Chloride | 2 |
| BC04382 | Chloride & Sulfate | 4 & 5 |
| BC04386 | Chloride & Sulfate | 4 & 20 |

8. The raw data results are shown with dilution factors included.

Alkalinity

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02831 | 718676 & 718677 | WMWGORAP_1350 |
| BC02832 | 718676 & 718677 | WMWGORAP_1350 |
| BC02833 | 718676 & 718677 | WMWGORAP_1350 |
| BC02834 | 718676 & 718677 | WMWGORAP_1350 |
| BC02835 | 718676 & 718677 | WMWGORAP_1350 |
| BC02836 | 718676 & 718677 | WMWGORAP_1350 |
| BC02837 | 718676 & 718677 | WMWGORAP_1350 |
| BC02838 | 718676 & 718677 | WMWGORAP_1350 |
| BC03236 | 719175 & 719176 | WMWGORAP_1350 |
| BC03237 | 719175 & 719176 | WMWGORAP_1350 |
| BC03238 | 719175 & 719176 | WMWGORAP_1350 |
| BC03239 | 719175 & 719176 | WMWGORAP_1350 |
| BC03240 | 719175 & 719176 | WMWGORAP_1350 |
| BC03241 | 719175 & 719176 | WMWGORAP_1350 |
| BC03242 | 719175 & 719176 | WMWGORAP_1350 |
| BC03243 | 719175 & 719176 | WMWGORAP_1350 |
| BC03244 | 719175 & 719176 | WMWGORAP_1350 |
| BC03245 | 719175 & 719176 | WMWGORAP_1350 |
| BC03246 | 719175 & 719176 | WMWGORAP_1350 |
| BC03247 | 719175 & 719176 | WMWGORAP_1350 |
| BC03249 | 719175 & 719176 | WMWGORAP_1350 |
| BC03523 | 719536 & 719537 | WMWGORAP_1350 |
| BC03524 | 719536 & 719537 | WMWGORAP_1350 |
| BC03525 | 719536 & 719537 | WMWGORAP_1350 |
| BC03527 | 719536 & 719537 | WMWGORAP_1350 |
| BC03528 | 719536 & 719537 | WMWGORAP_1350 |
| BC03529 | 719536 & 719537 | WMWGORAP_1350 |
| BC03530 | 719536 & 719537 | WMWGORAP_1350 |
| BC03531 | 719536 & 719537 | WMWGORAP_1350 |
| BC03532 | 719589 & 719590 | WMWGORAP_1350 |
| BC03533 | 719589 & 719590 | WMWGORAP_1350 |

| | | |
|---------|-----------------|---------------|
| BC03534 | 719589 & 719590 | WMWGORAP_1350 |
| BC03535 | 719589 & 719590 | WMWGORAP_1350 |
| BC03536 | 719589 & 719590 | WMWGORAP_1350 |
| BC03537 | 719589 & 719590 | WMWGORAP_1350 |
| BC03953 | 719952 & 719953 | WMWGORAP_1350 |
| BC03954 | 719952 & 719953 | WMWGORAP_1350 |
| BC03955 | 719952 & 719953 | WMWGORAP_1350 |
| BC03956 | 719952 & 719953 | WMWGORAP_1350 |
| BC03958 | 719952 & 719953 | WMWGORAP_1350 |
| BC03959 | 719952 & 719953 | WMWGORAP_1350 |
| BC03960 | 719952 & 719953 | WMWGORAP_1350 |
| BC03961 | 720033 & 720034 | WMWGORAP_1350 |
| BC03962 | 720033 & 720034 | WMWGORAP_1350 |
| BC03963 | 719952 & 719953 | WMWGORAP_1350 |
| BC03964 | 719952 & 719953 | WMWGORAP_1350 |
| BC03965 | 719952 & 719953 | WMWGORAP_1350 |
| BC03966 | 719952 & 719953 | WMWGORAP_1350 |
| BC03967 | 719952 & 719953 | WMWGORAP_1350 |
| BC03968 | 720033 & 720034 | WMWGORAP_1350 |
| BC03970 | 719952 & 719953 | WMWGORAP_1350 |
| BC03971 | 720033 & 720034 | WMWGORAP_1350 |
| BC03973 | 720033 & 720034 | WMWGORAP_1350 |
| BC04376 | 720033 & 720034 | WMWGORAP_1350 |
| BC04377 | 720033 & 720034 | WMWGORAP_1350 |
| BC04378 | 720033 & 720034 | WMWGORAP_1350 |
| BC04379 | 720033 & 720034 | WMWGORAP_1350 |
| BC04380 | 720033 & 720034 | WMWGORAP_1350 |
| BC04381 | 720329 & 720330 | WMWGORAP_1350 |
| BC04382 | 720329 & 720330 | WMWGORAP_1350 |
| BC04384 | 720329 & 720330 | WMWGORAP_1350 |
| BC04385 | 720329 & 720330 | WMWGORAP_1350 |
| BC04386 | 720329 & 720330 | WMWGORAP_1350 |

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

7. The following samples had $\text{pH} > 10$ and/or $\text{TDS} > 500 \text{mg/L}$. Therefore, the calculations for carbonate and bicarbonate are estimates:

- BC02834
- BC02835
- BC02836
- BC02837
- BC03239
- BC03243
- BC03244
- BC03527
- BC03528
- BC03529
- BC03533
- BC03535
- BC03953
- BC03956
- BC03961
- BC03962
- BC03971
- BC03973
- BC04386

8. The following sample had $\text{pH} > 12$. Therefore, the calculations for carbonate and bicarbonate are invalid and not reported:

- BC03525

Nitrate-Nitrite

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02831 | 718258 | WMWGORAP_1350 |
| BC02832 | 718258 | WMWGORAP_1350 |
| BC02833 | 718258 | WMWGORAP_1350 |
| BC02834 | 718258 | WMWGORAP_1350 |
| BC02835 | 718258 | WMWGORAP_1350 |
| BC02836 | 718258 | WMWGORAP_1350 |
| BC02837 | 718258 | WMWGORAP_1350 |
| BC02838 | 718258 | WMWGORAP_1350 |
| BC03236 | 719127 | WMWGORAP_1350 |
| BC03237 | 719127 | WMWGORAP_1350 |
| BC03238 | 719127 | WMWGORAP_1350 |
| BC03239 | 719127 | WMWGORAP_1350 |
| BC03240 | 719127 | WMWGORAP_1350 |
| BC03241 | 719127 | WMWGORAP_1350 |
| BC03242 | 719127 | WMWGORAP_1350 |
| BC03243 | 719127 | WMWGORAP_1350 |
| BC03244 | 719127 | WMWGORAP_1350 |
| BC03245 | 719127 | WMWGORAP_1350 |
| BC03246 | 719128 | WMWGORAP_1350 |
| BC03247 | 719128 | WMWGORAP_1350 |
| BC03248 | 719128 | WMWGORAP_1350 |
| BC03249 | 719128 | WMWGORAP_1350 |
| BC03523 | 719128 | WMWGORAP_1350 |
| BC03524 | 719128 | WMWGORAP_1350 |
| BC03525 | 719128 | WMWGORAP_1350 |
| BC03526 | 719128 | WMWGORAP_1350 |
| BC03527 | 719128 | WMWGORAP_1350 |
| BC03528 | 719128 | WMWGORAP_1350 |
| BC03529 | 719129 | WMWGORAP_1350 |
| BC03530 | 719129 | WMWGORAP_1350 |
| BC03531 | 719129 | WMWGORAP_1350 |

| | | |
|---------|--------|---------------|
| BC03532 | 719129 | WMWGORAP_1350 |
| BC03533 | 719129 | WMWGORAP_1350 |
| BC03534 | 719129 | WMWGORAP_1350 |
| BC03535 | 719129 | WMWGORAP_1350 |
| BC03536 | 719129 | WMWGORAP_1350 |
| BC03537 | 719129 | WMWGORAP_1350 |
| BC03538 | 719129 | WMWGORAP_1350 |
| BC03953 | 719552 | WMWGORAP_1350 |
| BC03954 | 719552 | WMWGORAP_1350 |
| BC03955 | 719552 | WMWGORAP_1350 |
| BC03956 | 719552 | WMWGORAP_1350 |
| BC03957 | 719552 | WMWGORAP_1350 |
| BC03958 | 719552 | WMWGORAP_1350 |
| BC03959 | 719552 | WMWGORAP_1350 |
| BC03960 | 719552 | WMWGORAP_1350 |
| BC03961 | 719552 | WMWGORAP_1350 |
| BC03962 | 719552 | WMWGORAP_1350 |
| BC03963 | 719553 | WMWGORAP_1350 |
| BC03964 | 719553 | WMWGORAP_1350 |
| BC03965 | 719553 | WMWGORAP_1350 |
| BC03966 | 719553 | WMWGORAP_1350 |
| BC03967 | 719553 | WMWGORAP_1350 |
| BC03968 | 719553 | WMWGORAP_1350 |
| BC03969 | 719553 | WMWGORAP_1350 |
| BC03970 | 719553 | WMWGORAP_1350 |
| BC03971 | 719553 | WMWGORAP_1350 |
| BC03972 | 719553 | WMWGORAP_1350 |
| BC03973 | 719554 | WMWGORAP_1350 |
| BC04376 | 720363 | WMWGORAP_1350 |
| BC04377 | 720363 | WMWGORAP_1350 |
| BC04378 | 720363 | WMWGORAP_1350 |
| BC04379 | 720363 | WMWGORAP_1350 |
| BC04380 | 720363 | WMWGORAP_1350 |
| BC04381 | 720363 | WMWGORAP_1350 |
| BC04382 | 720363 | WMWGORAP_1350 |
| BC04383 | 720363 | WMWGORAP_1350 |
| BC04384 | 720363 | WMWGORAP_1350 |
| BC04385 | 720363 | WMWGORAP_1350 |
| BC04386 | 720364 | WMWGORAP_1350 |

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met, except for the following:
 - BC03245 & BC03538 MS were outside of the specification limit.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Gorgas Ash Pond

WMWGORAP_1350

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02831 | 718710 | WMWGORAP_1350 |
| BC02832 | 718710 | WMWGORAP_1350 |
| BC02833 | 718710 | WMWGORAP_1350 |
| BC02834 | 718710 | WMWGORAP_1350 |
| BC02835 | 718710 | WMWGORAP_1350 |
| BC02836 | 718710 | WMWGORAP_1350 |
| BC02837 | 718710 | WMWGORAP_1350 |
| BC02838 | 718710 | WMWGORAP_1350 |
| BC03236 | 718710 | WMWGORAP_1350 |
| BC03237 | 718710 | WMWGORAP_1350 |
| BC03238 | 718990 | WMWGORAP_1350 |
| BC03239 | 718990 | WMWGORAP_1350 |
| BC03240 | 718990 | WMWGORAP_1350 |
| BC03241 | 718990 | WMWGORAP_1350 |
| BC03242 | 718990 | WMWGORAP_1350 |
| BC03243 | 718990 | WMWGORAP_1350 |
| BC03244 | 718990 | WMWGORAP_1350 |
| BC03245 | 718990 | WMWGORAP_1350 |
| BC03246 | 718990 | WMWGORAP_1350 |
| BC03247 | 718990 | WMWGORAP_1350 |
| BC03248 | 718991 | WMWGORAP_1350 |
| BC03249 | 718991 | WMWGORAP_1350 |
| BC03523 | 718991 | WMWGORAP_1350 |
| BC03524 | 718991 | WMWGORAP_1350 |
| BC03525 | 718991 | WMWGORAP_1350 |
| BC03526 | 718991 | WMWGORAP_1350 |
| BC03527 | 718991 | WMWGORAP_1350 |
| BC03528 | 718991 | WMWGORAP_1350 |
| BC03529 | 718991 | WMWGORAP_1350 |
| BC03530 | 718991 | WMWGORAP_1350 |
| BC03531 | 719844 | WMWGORAP_1350 |

| | | |
|---------|--------|---------------|
| BC03532 | 719844 | WMWGORAP_1350 |
| BC03533 | 719844 | WMWGORAP_1350 |
| BC03534 | 719844 | WMWGORAP_1350 |
| BC03535 | 719844 | WMWGORAP_1350 |
| BC03536 | 719844 | WMWGORAP_1350 |
| BC03537 | 719844 | WMWGORAP_1350 |
| BC03538 | 719844 | WMWGORAP_1350 |
| BC03953 | 719844 | WMWGORAP_1350 |
| BC03954 | 719844 | WMWGORAP_1350 |
| BC03955 | 719845 | WMWGORAP_1350 |
| BC03956 | 719845 | WMWGORAP_1350 |
| BC03957 | 719845 | WMWGORAP_1350 |
| BC03958 | 719845 | WMWGORAP_1350 |
| BC03959 | 719845 | WMWGORAP_1350 |
| BC03960 | 719845 | WMWGORAP_1350 |
| BC03961 | 719845 | WMWGORAP_1350 |
| BC03962 | 719845 | WMWGORAP_1350 |
| BC03963 | 719845 | WMWGORAP_1350 |
| BC03964 | 719845 | WMWGORAP_1350 |
| BC03965 | 719956 | WMWGORAP_1350 |
| BC03966 | 719956 | WMWGORAP_1350 |
| BC03967 | 719956 | WMWGORAP_1350 |
| BC03968 | 719956 | WMWGORAP_1350 |
| BC03969 | 719956 | WMWGORAP_1350 |
| BC03970 | 719956 | WMWGORAP_1350 |
| BC03971 | 719956 | WMWGORAP_1350 |
| BC03972 | 719956 | WMWGORAP_1350 |
| BC03973 | 719956 | WMWGORAP_1350 |
| BC04376 | 719956 | WMWGORAP_1350 |
| BC04377 | 720374 | WMWGORAP_1350 |
| BC04378 | 720374 | WMWGORAP_1350 |
| BC04379 | 720374 | WMWGORAP_1350 |
| BC04380 | 720374 | WMWGORAP_1350 |
| BC04381 | 720374 | WMWGORAP_1350 |
| BC04382 | 720374 | WMWGORAP_1350 |
| BC04383 | 720374 | WMWGORAP_1350 |
| BC04384 | 720374 | WMWGORAP_1350 |
| BC04385 | 720374 | WMWGORAP_1350 |
| BC04386 | 720374 | WMWGORAP_1350 |

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was $<1/2RL$.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were $<1/2RL$.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7

Location Code: WMWGORAP
Collected: 2/8/22 11:20
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02831

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 11:39 | | 1.015 | 1.69 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 11:39 | | 1.015 | 10.7 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 11:39 | | 1.015 | 1.13 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 11:39 | | 1.015 | 0.203 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 11:39 | | 1.015 | 3.91 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 11:39 | | 1 | 12.2 | mg/L | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 11:39 | | 1.015 | 5.71 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:23 | | 10.15 | 102 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:20 | | 1.015 | 1.71 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:20 | | 1.015 | 10.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:20 | | 1.015 | 0.215 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:20 | | 1.015 | 0.197 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:20 | | 1.015 | 3.75 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:20 | | 1 | 11.8 | mg/L | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:20 | | 1.015 | 5.52 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 12:37 | | 10.15 | 99.2 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | 0.269 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | 0.281 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | 0.0747 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | 0.00103 | mg/L | 0.000203 | 0.001015 | |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | 0.000507 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | 0.000804 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | 0.0537 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | 0.221 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | 1.32 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7

Location Code: WMWGORAP
Collected: 2/8/22 11:20
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02831

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | 0.255 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | 0.0536 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | 0.0369 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | 0.204 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | 1.19 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/10/22 13:23 | 2/10/22 20:13 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/14/22 14:50 | 2/14/22 14:50 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 113 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/10/22 11:15 | 2/11/22 13:20 | | 1 | 332 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 112 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 0.78 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/16/22 15:25 | 2/16/22 15:25 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7

Location Code: WMWGORAP

Collected: 2/8/22 11:20

Customer ID:

Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02831

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/10/22 09:41 | 2/10/22 09:41 | | 1 | 7.50 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:22 | 2/10/22 16:22 | | 1 | 0.0945 | mg/L | 0.06 | 0.1 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:06 | 2/14/22 15:06 | | 8 | 138 | mg/L | 4.00 | 8 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/8/22 11:18 | 2/8/22 11:18 | | | 522.40 | uS/cm | | | FA |
| pH | 2/8/22 11:18 | 2/8/22 11:18 | | | 7.71 | SU | | | FA |
| Temperature | 2/8/22 11:18 | 2/8/22 11:18 | | | 18.93 | C | | | FA |
| Turbidity | 2/8/22 11:18 | 2/8/22 11:18 | | | 18.9 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 11:20

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: BC02831

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC02838 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.106 | 0.109 | 0.0990 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 2.79 | 20.0 |
| BC03238 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.102 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0907 | 0.0886 | 0.0917 | 0.0850 to 0.115 | 90.7 | 70.0 to 130 | 2.34 | 20.0 |
| BC03238 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0960 | 0.0976 | 0.0973 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 1.65 | 20.0 |
| BC02838 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0970 | 0.0973 | 0.100 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.309 | 20.0 |
| BC03238 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02838 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.227 | 0.227 | 0.0940 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.409 | 0.411 | 0.104 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 0.488 | 20.0 |
| BC02838 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.103 | 0.103 | 0.0981 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.0996 | 0.0983 | 0.103 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.31 | 20.0 |
| BC02838 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC02838 | Boron, Total | mg/L | -0.000727 | 0.0650 | 1.00 | 1.02 | 1.04 | 1.02 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC02838 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0941 | 0.0912 | 0.0943 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 3.13 | 20.0 |
| BC03238 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 10.8 | 10.7 | 4.85 | 4.25 to 5.75 | 103 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Calcium, Total | mg/L | -0.0128 | 0.152 | 5.00 | 10.6 | 10.1 | 4.73 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 4.83 | 20.0 |
| BC02838 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0973 | 0.0995 | 0.102 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.24 | 20.0 |
| BC03238 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.101 | 0.103 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC03238 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.201 | 0.201 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Iron, Total | mg/L | -0.000473 | 0.0176 | 0.2 | 0.205 | 0.207 | 0.200 | 0.170 to 0.230 | 97.2 | 70.0 to 130 | 0.971 | 20.0 |
| BC02838 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 11:20

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: BC02831

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03238 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC02838 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.232 | 0.227 | 0.202 | 0.170 to 0.230 | 97.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC02838 | Lithium, Total | mg/L | 0.000026 | 0.0154 | 0.200 | 0.235 | 0.242 | 0.202 | 0.170 to 0.230 | 99.2 | 70.0 to 130 | 2.94 | 20.0 |
| BC02838 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 7.08 | 6.91 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 2.43 | 20.0 |
| BC02838 | Magnesium, Total | mg/L | -0.0120 | 0.0462 | 5.00 | 7.08 | 7.09 | 5.03 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.141 | 20.0 |
| BC02838 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.109 | 0.111 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 1.82 | 20.0 |
| BC03238 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.135 | 0.136 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.738 | 20.0 |
| BC02838 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00414 | 0.00408 | 0.00415 | 0.00340 to 0.00460 | 104 | 70.0 to 130 | 1.46 | 20.0 |
| BC02838 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.103 | 0.102 | 0.0999 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.976 | 20.0 |
| BC03238 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 11.2 | 11.4 | 9.99 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 1.77 | 20.0 |
| BC03238 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 12.2 | 12.2 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0889 | 0.0886 | 0.0976 | 0.0850 to 0.115 | 74.5 | 70.0 to 130 | 0.338 | 20.0 |
| BC03238 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 10.1 | 10.2 | 1.04 | 0.850 to 1.15 | 35.0 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Silicon, Total | mg/L | -0.000052 | 0.0440 | 1.00 | 9.90 | 9.96 | 1.03 | 0.850 to 1.15 | 110 | 70.0 to 130 | 0.604 | 20.0 |
| BC02838 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 133 | 127 | 5.06 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 4.62 | 20.0 |
| BC02838 | Sodium, Total | mg/L | 0.00310 | 0.0660 | 5.00 | 123 | 123 | 4.97 | 4.25 to 5.75 | 0.00 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03238 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.110 | 0.104 | 0.111 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 5.61 | 20.0 |
| BC03237 | Total Organic Carbon | mg/L | 0.320 | 1.00 | 10.0 | 10.6 | 11.1 | 24.7 | | 95.4 | 80.0 to 120 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 11:20

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: BC02831

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02838 | Alkalinity, Total as CaCO3 | mg/L | | | | | 226 | 51.7 | 45.0 to 55.0 | | | 2.19 | 10.0 |
| BC02838 | Chloride | mg/L | -0.0265 | 1.00 | 50.0 | 80.4 | 27.2 | 10.1 | 9.00 to 11.0 | 95.8 | 80.0 to 120 | 17.8 | 20.0 |
| BC02838 | Fluoride | mg/L | -0.0198 | 0.125 | 2.50 | 2.71 | 0.122 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 2.49 | 20.0 |
| BC02838 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.02 | -0.002 | 1.84 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC02838 | Solids, Dissolved | mg/L | -2.00 | 25.0 | | | 283 | 52.0 | 40.0 to 60.0 | | | 0.704 | 10.0 |
| BC02838 | Sulfate | mg/L | -0.206 | 2.0 | 20.0 | 46.7 | 29.3 | 20.1 | 18.0 to 22.0 | 86.0 | 80.0 to 120 | 0.680 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7 DIS

Location Code: WMWGORAP
Collected: 2/8/22 11:20
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02832

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|--------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:22 | | 1.015 | 1.70 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:22 | | 1.015 | 11.1 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:22 | | 1.015 | 0.211 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:22 | | 1.015 | 0.191 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:22 | | 1.015 | 3.73 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:22 | | 1 | 11.7 | mg/L | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:22 | | 1.015 | 5.48 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 12:38 | | 10.15 | 98.1 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | 0.253 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | 0.0534 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | 0.0372 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | 0.203 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | 1.21 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 16:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Dissolved by CVAA | 2/15/22 17:19 | 2/15/22 22:32 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/14/22 14:52 | 2/14/22 14:52 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 118 | mg/L | | 0.1 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7 DIS

Location Code: WMWGORAP

Collected: 2/8/22 11:20

Customer ID:

Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02832

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/10/22 11:15 | 2/11/22 13:20 | | 1 | 318 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 117 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 0.74 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/16/22 15:41 | 2/16/22 15:41 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500CI E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/10/22 09:42 | 2/10/22 09:42 | | 1 | 7.45 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:23 | 2/10/22 16:23 | | 1 | 0.0799 | mg/L | 0.06 | 0.1 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:03 | 2/14/22 15:03 | | 8 | 136 | mg/L | 4.00 | 8 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 11:20

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-7 DIS

Laboratory ID Number: BC02832

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|-----------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02838 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.106 | 0.109 | 0.0990 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 2.79 | 20.0 |
| BC02838 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0907 | 0.0886 | 0.0917 | 0.0850 to 0.115 | 90.7 | 70.0 to 130 | 2.34 | 20.0 |
| BC02838 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0970 | 0.0973 | 0.100 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.309 | 20.0 |
| BC02838 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.227 | 0.227 | 0.0940 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.103 | 0.103 | 0.0981 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC02838 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0941 | 0.0912 | 0.0943 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 3.13 | 20.0 |
| BC02838 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 10.8 | 10.7 | 4.85 | 4.25 to 5.75 | 103 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0973 | 0.0995 | 0.102 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.24 | 20.0 |
| BC02838 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.101 | 0.103 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC02838 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.201 | 0.201 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.232 | 0.227 | 0.202 | 0.170 to 0.230 | 97.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC02838 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 7.08 | 6.91 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 2.43 | 20.0 |
| BC02838 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.109 | 0.111 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 1.82 | 20.0 |
| BC02832 | Mercury, Dissolved by | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00399 | 0.00405 | 0.00391 | 0.00340 to 0.00460 | 99.8 | 70.0 to 130 | 1.49 | 20.0 |
| BC02838 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.103 | 0.102 | 0.0999 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.976 | 20.0 |
| BC02838 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 11.2 | 11.4 | 9.99 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 1.77 | 20.0 |
| BC02838 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0889 | 0.0886 | 0.0976 | 0.0850 to 0.115 | 74.5 | 70.0 to 130 | 0.338 | 20.0 |
| BC02838 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 10.1 | 10.2 | 1.04 | 0.850 to 1.15 | 35.0 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 133 | 127 | 5.06 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 4.62 | 20.0 |
| BC02838 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03237 | Total Organic Carbon | mg/L | 0.320 | 1.00 | 10.0 | 10.6 | 11.1 | 24.7 | | 95.4 | 80.0 to 120 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/8/22 11:20
Customer ID:
Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-7 DIS

Laboratory ID Number: BC02832

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | MSD | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 11:20

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-7 DIS

Laboratory ID Number: BC02832

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|-------|---------------|
| BC02838 | Alkalinity, Total as CaCO3 | mg/L | | | | | 226 | 51.7 | 45.0 to 55.0 | | | 2.19 | 10.0 |
| BC02838 | Chloride | mg/L | -0.0265 | 1.00 | 50.0 | 80.4 | 27.2 | 10.1 | 9.00 to 11.0 | 95.8 | 80.0 to 120 | 17.8 | 20.0 |
| BC02838 | Fluoride | mg/L | -0.0198 | 0.125 | 2.50 | 2.71 | 0.122 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 2.49 | 20.0 |
| BC02838 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.02 | -0.002 | 1.84 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC02838 | Solids, Dissolved | mg/L | -2.00 | 25.0 | | | 283 | 52.0 | 40.0 to 60.0 | | | 0.704 | 10.0 |
| BC02838 | Sulfate | mg/L | -0.206 | 2.0 | 20.0 | 46.7 | 29.3 | 20.1 | 18.0 to 22.0 | 86.0 | 80.0 to 120 | 0.680 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HS

Location Code: WMWGORAP
Collected: 2/8/22 14:43
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02833

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 11:40 | | 1.015 | 1.04 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 11:40 | | 1.015 | 30.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 11:40 | | 1.015 | 1.89 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 11:40 | | 1.015 | 0.0817 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 11:40 | | 1.015 | 19.4 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 11:40 | | 1 | 19.2 | mg/L | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 11:40 | | 1.015 | 8.96 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 11:40 | | 1.015 | 32.6 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:24 | | 1.015 | 1.05 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:24 | | 1.015 | 34.0 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:24 | | 1.015 | 1.83 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:24 | | 1.015 | 0.0844 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:24 | | 1.015 | 20.7 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:24 | | 1 | 19.6 | mg/L | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:24 | | 1.015 | 9.18 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 10:24 | | 1.015 | 26.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | 0.0277 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | 0.00144 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | 0.0542 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | 0.000348 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | 0.00378 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | 0.267 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | 0.00104 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | 2.12 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HS

Location Code: WMWGORAP
Collected: 2/8/22 14:43
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02833

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | 0.00141 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | 0.0509 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | 0.00638 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | 0.420 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | 0.00126 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | 1.98 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 16:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/10/22 13:23 | 2/10/22 20:17 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/14/22 14:54 | 2/14/22 14:54 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 117 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/10/22 11:15 | 2/11/22 13:20 | | 1 | 265 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 117 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 0.06 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/16/22 15:58 | 2/16/22 15:58 | | 1 | 1.93 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HS

Location Code: WMWGORAP

Collected: 2/8/22 14:43

Customer ID:

Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02833

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/10/22 09:44 | 2/10/22 09:44 | | 1 | 6.72 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:24 | 2/10/22 16:24 | | 1 | 0.117 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:04 | 2/14/22 15:04 | | 8 | 105 | mg/L | 4.00 | 8 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/8/22 14:39 | 2/8/22 14:39 | | | 429.61 | uS/cm | | | FA |
| pH | 2/8/22 14:39 | 2/8/22 14:39 | | | 6.66 | SU | | | FA |
| Temperature | 2/8/22 14:39 | 2/8/22 14:39 | | | 18.84 | C | | | FA |
| Turbidity | 2/8/22 14:39 | 2/8/22 14:39 | | | 1.3 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 14:43

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-41HS

Laboratory ID Number: BC02833

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC02838 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.106 | 0.109 | 0.0990 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 2.79 | 20.0 |
| BC03238 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.102 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0907 | 0.0886 | 0.0917 | 0.0850 to 0.115 | 90.7 | 70.0 to 130 | 2.34 | 20.0 |
| BC03238 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0960 | 0.0976 | 0.0973 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 1.65 | 20.0 |
| BC02838 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0970 | 0.0973 | 0.100 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.309 | 20.0 |
| BC03238 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02838 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.227 | 0.227 | 0.0940 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.409 | 0.411 | 0.104 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 0.488 | 20.0 |
| BC02838 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.103 | 0.103 | 0.0981 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.0996 | 0.0983 | 0.103 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.31 | 20.0 |
| BC02838 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC02838 | Boron, Total | mg/L | -0.000727 | 0.0650 | 1.00 | 1.02 | 1.04 | 1.02 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC02838 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0941 | 0.0912 | 0.0943 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 3.13 | 20.0 |
| BC03238 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 10.8 | 10.7 | 4.85 | 4.25 to 5.75 | 103 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Calcium, Total | mg/L | -0.0128 | 0.152 | 5.00 | 10.6 | 10.1 | 4.73 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 4.83 | 20.0 |
| BC02838 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0973 | 0.0995 | 0.102 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.24 | 20.0 |
| BC03238 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.101 | 0.103 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC03238 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.201 | 0.201 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Iron, Total | mg/L | -0.000473 | 0.0176 | 0.2 | 0.205 | 0.207 | 0.200 | 0.170 to 0.230 | 97.2 | 70.0 to 130 | 0.971 | 20.0 |
| BC02838 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 14:43

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-41HS

Laboratory ID Number: BC02833

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03238 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC02838 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.232 | 0.227 | 0.202 | 0.170 to 0.230 | 97.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC02838 | Lithium, Total | mg/L | 0.000026 | 0.0154 | 0.200 | 0.235 | 0.242 | 0.202 | 0.170 to 0.230 | 99.2 | 70.0 to 130 | 2.94 | 20.0 |
| BC02838 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 7.08 | 6.91 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 2.43 | 20.0 |
| BC02838 | Magnesium, Total | mg/L | -0.0120 | 0.0462 | 5.00 | 7.08 | 7.09 | 5.03 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.141 | 20.0 |
| BC02838 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.109 | 0.111 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 1.82 | 20.0 |
| BC03238 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.135 | 0.136 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.738 | 20.0 |
| BC02838 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00414 | 0.00408 | 0.00415 | 0.00340 to 0.00460 | 104 | 70.0 to 130 | 1.46 | 20.0 |
| BC02838 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.103 | 0.102 | 0.0999 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.976 | 20.0 |
| BC03238 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 11.2 | 11.4 | 9.99 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 1.77 | 20.0 |
| BC03238 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 12.2 | 12.2 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0889 | 0.0886 | 0.0976 | 0.0850 to 0.115 | 74.5 | 70.0 to 130 | 0.338 | 20.0 |
| BC03238 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 10.1 | 10.2 | 1.04 | 0.850 to 1.15 | 35.0 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Silicon, Total | mg/L | -0.000052 | 0.0440 | 1.00 | 9.90 | 9.96 | 1.03 | 0.850 to 1.15 | 110 | 70.0 to 130 | 0.604 | 20.0 |
| BC02838 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 133 | 127 | 5.06 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 4.62 | 20.0 |
| BC02838 | Sodium, Total | mg/L | 0.00310 | 0.0660 | 5.00 | 123 | 123 | 4.97 | 4.25 to 5.75 | 0.00 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03238 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.110 | 0.104 | 0.111 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 5.61 | 20.0 |
| BC03237 | Total Organic Carbon | mg/L | 0.320 | 1.00 | 10.0 | 10.6 | 11.1 | 24.7 | | 95.4 | 80.0 to 120 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 14:43

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-41HS

Laboratory ID Number: BC02833

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02838 | Alkalinity, Total as CaCO3 | mg/L | | | | | 226 | 51.7 | 45.0 to 55.0 | | | 2.19 | 10.0 |
| BC02838 | Chloride | mg/L | -0.0265 | 1.00 | 50.0 | 80.4 | 27.2 | 10.1 | 9.00 to 11.0 | 95.8 | 80.0 to 120 | 17.8 | 20.0 |
| BC02838 | Fluoride | mg/L | -0.0198 | 0.125 | 2.50 | 2.71 | 0.122 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 2.49 | 20.0 |
| BC02838 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.02 | -0.002 | 1.84 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC02838 | Solids, Dissolved | mg/L | -2.00 | 25.0 | | | 283 | 52.0 | 40.0 to 60.0 | | | 0.704 | 10.0 |
| BC02838 | Sulfate | mg/L | -0.206 | 2.0 | 20.0 | 46.7 | 29.3 | 20.1 | 18.0 to 22.0 | 86.0 | 80.0 to 120 | 0.680 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6V

Location Code: WMWGORAP
Collected: 2/9/22 12:00
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02834

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 11:42 | | 1.015 | 0.101 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 11:42 | | 1.015 | 1.29 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 11:42 | | 1.015 | 0.143 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 11:42 | | 1.015 | 0.121 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 11:42 | | 1.015 | 0.431 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 11:42 | | 1 | 9.27 | mg/L | | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 11:42 | | 1.015 | 4.33 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:25 | | 10.15 | 361 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:26 | | 1.015 | 0.100 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:26 | | 1.015 | 1.30 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:26 | | 1.015 | 0.0161 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:26 | | 1.015 | 0.118 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:26 | | 1.015 | 0.407 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:26 | | 1 | 8.71 | mg/L | | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:26 | | 1.015 | 4.07 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 12:40 | | 10.15 | 374 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | 0.199 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | 0.000904 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | 0.156 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | 0.000418 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | 0.000119 | mg/L | 0.000068 | 0.000203 | J | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | 0.000186 | mg/L | 0.000068 | 0.000203 | J | |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | 0.00868 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | 0.00336 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | 1.17 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6V

Location Code: WMWGORAP
Collected: 2/9/22 12:00
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02834

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | 0.0219 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | 0.000682 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | 0.143 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | 0.000203 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | 0.00712 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | 0.00288 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | 1.20 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 16:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/10/22 13:23 | 2/10/22 20:21 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/14/22 14:55 | 2/14/22 14:55 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 803 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/10/22 11:15 | 2/11/22 13:20 | | 1 | 818 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 766 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 36.9 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/16/22 16:18 | 2/16/22 16:18 | | 1 | 1.36 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6V

Location Code: WMWGORAP

Collected: 2/9/22 12:00

Customer ID:

Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02834

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/10/22 10:32 | 2/10/22 10:32 | | 8 | 53.3 | mg/L | 4.00 | 8 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:26 | 2/10/22 16:26 | | 1 | 4.35 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 14:54 | 2/14/22 14:54 | | 1 | 8.60 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/9/22 11:56 | 2/9/22 11:56 | | | 1404.56 | uS/cm | | | FA |
| pH | 2/9/22 11:56 | 2/9/22 11:56 | | | 8.80 | SU | | | FA |
| Temperature | 2/9/22 11:56 | 2/9/22 11:56 | | | 21.50 | C | | | FA |
| Turbidity | 2/9/22 11:56 | 2/9/22 11:56 | | | 9.35 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 12:00

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-6V

Laboratory ID Number: BC02834

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02838 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.106 | 0.109 | 0.0990 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 2.79 | 20.0 |
| BC03238 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.102 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0907 | 0.0886 | 0.0917 | 0.0850 to 0.115 | 90.7 | 70.0 to 130 | 2.34 | 20.0 |
| BC03238 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0960 | 0.0976 | 0.0973 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 1.65 | 20.0 |
| BC02838 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0970 | 0.0973 | 0.100 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.309 | 20.0 |
| BC03238 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02838 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.227 | 0.227 | 0.0940 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.409 | 0.411 | 0.104 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 0.488 | 20.0 |
| BC02838 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.103 | 0.103 | 0.0981 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.0996 | 0.0983 | 0.103 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.31 | 20.0 |
| BC02838 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC02838 | Boron, Total | mg/L | -0.000727 | 0.0650 | 1.00 | 1.02 | 1.04 | 1.02 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC02838 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0941 | 0.0912 | 0.0943 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 3.13 | 20.0 |
| BC03238 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 10.8 | 10.7 | 4.85 | 4.25 to 5.75 | 103 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Calcium, Total | mg/L | -0.0128 | 0.152 | 5.00 | 10.6 | 10.1 | 4.73 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 4.83 | 20.0 |
| BC02838 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0973 | 0.0995 | 0.102 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.24 | 20.0 |
| BC03238 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.101 | 0.103 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC03238 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.201 | 0.201 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Iron, Total | mg/L | -0.000473 | 0.0176 | 0.2 | 0.205 | 0.207 | 0.200 | 0.170 to 0.230 | 97.2 | 70.0 to 130 | 0.971 | 20.0 |
| BC02838 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 12:00

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-6V

Laboratory ID Number: BC02834

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03238 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC02838 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.232 | 0.227 | 0.202 | 0.170 to 0.230 | 97.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC02838 | Lithium, Total | mg/L | 0.000026 | 0.0154 | 0.200 | 0.235 | 0.242 | 0.202 | 0.170 to 0.230 | 99.2 | 70.0 to 130 | 2.94 | 20.0 |
| BC02838 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 7.08 | 6.91 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 2.43 | 20.0 |
| BC02838 | Magnesium, Total | mg/L | -0.0120 | 0.0462 | 5.00 | 7.08 | 7.09 | 5.03 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.141 | 20.0 |
| BC02838 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.109 | 0.111 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 1.82 | 20.0 |
| BC03238 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.135 | 0.136 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.738 | 20.0 |
| BC02838 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00414 | 0.00408 | 0.00415 | 0.00340 to 0.00460 | 104 | 70.0 to 130 | 1.46 | 20.0 |
| BC02838 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.103 | 0.102 | 0.0999 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.976 | 20.0 |
| BC03238 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 11.2 | 11.4 | 9.99 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 1.77 | 20.0 |
| BC03238 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 12.2 | 12.2 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0889 | 0.0886 | 0.0976 | 0.0850 to 0.115 | 74.5 | 70.0 to 130 | 0.338 | 20.0 |
| BC03238 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 10.1 | 10.2 | 1.04 | 0.850 to 1.15 | 35.0 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Silicon, Total | mg/L | -0.000052 | 0.0440 | 1.00 | 9.90 | 9.96 | 1.03 | 0.850 to 1.15 | 110 | 70.0 to 130 | 0.604 | 20.0 |
| BC02838 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 133 | 127 | 5.06 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 4.62 | 20.0 |
| BC02838 | Sodium, Total | mg/L | 0.00310 | 0.0660 | 5.00 | 123 | 123 | 4.97 | 4.25 to 5.75 | 0.00 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03238 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.110 | 0.104 | 0.111 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 5.61 | 20.0 |
| BC03237 | Total Organic Carbon | mg/L | 0.320 | 1.00 | 10.0 | 10.6 | 11.1 | 24.7 | | 95.4 | 80.0 to 120 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 12:00

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-6V

Laboratory ID Number: BC02834

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02838 | Alkalinity, Total as CaCO3 | mg/L | | | | | 226 | 51.7 | 45.0 to 55.0 | | | 2.19 | 10.0 |
| BC02838 | Chloride | mg/L | -0.0265 | 1.00 | 50.0 | 80.4 | 27.2 | 10.1 | 9.00 to 11.0 | 95.8 | 80.0 to 120 | 17.8 | 20.0 |
| BC02838 | Fluoride | mg/L | -0.0198 | 0.125 | 2.50 | 2.71 | 0.122 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 2.49 | 20.0 |
| BC02838 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.02 | -0.002 | 1.84 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC02838 | Solids, Dissolved | mg/L | -2.00 | 25.0 | | | 283 | 52.0 | 40.0 to 60.0 | | | 0.704 | 10.0 |
| BC02838 | Sulfate | mg/L | -0.206 | 2.0 | 20.0 | 46.7 | 29.3 | 20.1 | 18.0 to 22.0 | 86.0 | 80.0 to 120 | 0.680 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-30HA

Location Code: WMWGORAP
Collected: 2/8/22 09:36
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02835

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 11:44 | | 1.015 | 0.0654 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 13:27 | | 10.15 | 46.7 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 11:44 | | 1.015 | 2.62 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 11:44 | | 1.015 | 0.0533 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 11:44 | | 1.015 | 8.11 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 11:44 | | 1 | 22.0 | mg/L | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 11:44 | | 1.015 | 10.3 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:27 | | 10.15 | 185 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:28 | | 1.015 | 0.0649 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 12:42 | | 10.15 | 47.1 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:28 | | 1.015 | 2.55 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:28 | | 1.015 | 0.0522 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:28 | | 1.015 | 8.03 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:28 | | 1 | 21.4 | mg/L | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:28 | | 1.015 | 10.0 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 12:42 | | 10.15 | 179 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | 0.0592 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | 0.00331 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | 0.100 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | 0.000375 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | 0.000184 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | 0.000117 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | 0.163 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | 0.00529 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | 4.15 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-30HA

Location Code: WMWGORAP
Collected: 2/8/22 09:36
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02835

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | 0.00283 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | 0.0890 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | 0.0000946 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | 0.155 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | 0.00494 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | 3.93 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 16:24 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/10/22 13:23 | 2/10/22 20:25 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/14/22 14:56 | 2/14/22 14:56 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 296 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/10/22 11:15 | 2/11/22 13:20 | | 1 | 628 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 295 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 0.67 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/16/22 16:38 | 2/16/22 16:38 | | 1 | 2.21 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-30HA

Location Code: WMWGORAP

Collected: 2/8/22 09:36

Customer ID:

Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02835

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/10/22 09:46 | 2/10/22 09:46 | | 1 | 5.81 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:27 | 2/10/22 16:27 | | 1 | 1.66 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:07 | 2/14/22 15:07 | | 16 | 215 | mg/L | 8.00 | 16 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/8/22 09:33 | 2/8/22 09:33 | | | 945.82 | uS/cm | | | FA |
| pH | 2/8/22 09:33 | 2/8/22 09:33 | | | 7.35 | SU | | | FA |
| Temperature | 2/8/22 09:33 | 2/8/22 09:33 | | | 14.98 | C | | | FA |
| Turbidity | 2/8/22 09:33 | 2/8/22 09:33 | | | 4.94 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/8/22 09:36
Customer ID:
Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-30HA

Laboratory ID Number: BC02835

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC02838 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.106 | 0.109 | 0.0990 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 2.79 | 20.0 |
| BC03238 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.102 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0907 | 0.0886 | 0.0917 | 0.0850 to 0.115 | 90.7 | 70.0 to 130 | 2.34 | 20.0 |
| BC03238 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0960 | 0.0976 | 0.0973 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 1.65 | 20.0 |
| BC02838 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0970 | 0.0973 | 0.100 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.309 | 20.0 |
| BC03238 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02838 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.227 | 0.227 | 0.0940 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.409 | 0.411 | 0.104 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 0.488 | 20.0 |
| BC02838 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.103 | 0.103 | 0.0981 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.0996 | 0.0983 | 0.103 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.31 | 20.0 |
| BC02838 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC02838 | Boron, Total | mg/L | -0.000727 | 0.0650 | 1.00 | 1.02 | 1.04 | 1.02 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC02838 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0941 | 0.0912 | 0.0943 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 3.13 | 20.0 |
| BC03238 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 10.8 | 10.7 | 4.85 | 4.25 to 5.75 | 103 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Calcium, Total | mg/L | -0.0128 | 0.152 | 5.00 | 10.6 | 10.1 | 4.73 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 4.83 | 20.0 |
| BC02838 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0973 | 0.0995 | 0.102 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.24 | 20.0 |
| BC03238 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.101 | 0.103 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC03238 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.201 | 0.201 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Iron, Total | mg/L | -0.000473 | 0.0176 | 0.2 | 0.205 | 0.207 | 0.200 | 0.170 to 0.230 | 97.2 | 70.0 to 130 | 0.971 | 20.0 |
| BC02838 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 09:36

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-30HA

Laboratory ID Number: BC02835

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03238 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC02838 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.232 | 0.227 | 0.202 | 0.170 to 0.230 | 97.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC02838 | Lithium, Total | mg/L | 0.000026 | 0.0154 | 0.200 | 0.235 | 0.242 | 0.202 | 0.170 to 0.230 | 99.2 | 70.0 to 130 | 2.94 | 20.0 |
| BC02838 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 7.08 | 6.91 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 2.43 | 20.0 |
| BC02838 | Magnesium, Total | mg/L | -0.0120 | 0.0462 | 5.00 | 7.08 | 7.09 | 5.03 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.141 | 20.0 |
| BC02838 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.109 | 0.111 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 1.82 | 20.0 |
| BC03238 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.135 | 0.136 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.738 | 20.0 |
| BC02838 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00414 | 0.00408 | 0.00415 | 0.00340 to 0.00460 | 104 | 70.0 to 130 | 1.46 | 20.0 |
| BC02838 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.103 | 0.102 | 0.0999 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.976 | 20.0 |
| BC03238 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 11.2 | 11.4 | 9.99 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 1.77 | 20.0 |
| BC03238 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 12.2 | 12.2 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0889 | 0.0886 | 0.0976 | 0.0850 to 0.115 | 74.5 | 70.0 to 130 | 0.338 | 20.0 |
| BC03238 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 10.1 | 10.2 | 1.04 | 0.850 to 1.15 | 35.0 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Silicon, Total | mg/L | -0.000052 | 0.0440 | 1.00 | 9.90 | 9.96 | 1.03 | 0.850 to 1.15 | 110 | 70.0 to 130 | 0.604 | 20.0 |
| BC02838 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 133 | 127 | 5.06 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 4.62 | 20.0 |
| BC02838 | Sodium, Total | mg/L | 0.00310 | 0.0660 | 5.00 | 123 | 123 | 4.97 | 4.25 to 5.75 | 0.00 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03238 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.110 | 0.104 | 0.111 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 5.61 | 20.0 |
| BC03237 | Total Organic Carbon | mg/L | 0.320 | 1.00 | 10.0 | 10.6 | 11.1 | 24.7 | | 95.4 | 80.0 to 120 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 09:36

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-30HA

Laboratory ID Number: BC02835

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02838 | Alkalinity, Total as CaCO3 | mg/L | | | | | 226 | 51.7 | 45.0 to 55.0 | | | 2.19 | 10.0 |
| BC02838 | Chloride | mg/L | -0.0265 | 1.00 | 50.0 | 80.4 | 27.2 | 10.1 | 9.00 to 11.0 | 95.8 | 80.0 to 120 | 17.8 | 20.0 |
| BC02838 | Fluoride | mg/L | -0.0198 | 0.125 | 2.50 | 2.71 | 0.122 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 2.49 | 20.0 |
| BC02838 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.02 | -0.002 | 1.84 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC02838 | Solids, Dissolved | mg/L | -2.00 | 25.0 | | | 283 | 52.0 | 40.0 to 60.0 | | | 0.704 | 10.0 |
| BC02838 | Sulfate | mg/L | -0.206 | 2.0 | 20.0 | 46.7 | 29.3 | 20.1 | 18.0 to 22.0 | 86.0 | 80.0 to 120 | 0.680 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21

Location Code: WMWGORAP
Collected: 2/8/22 11:11
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02836

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 11:46 | | 1.015 | 0.111 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 11:46 | | 1.015 | 1.98 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 11:46 | | 1.015 | 0.0214 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 11:46 | | 1.015 | 0.0996 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 11:46 | | 1.015 | 0.419 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 11:46 | | 1 | 9.20 | mg/L | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 11:46 | | 1.015 | 4.30 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:29 | | 10.15 | 218 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:30 | | 1.015 | 0.111 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:30 | | 1.015 | 1.82 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:30 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:30 | | 1.015 | 0.0947 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:30 | | 1.015 | 0.411 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:30 | | 1 | 9.10 | mg/L | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:30 | | 1.015 | 4.25 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 12:44 | | 10.15 | 221 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | 0.0337 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | 0.000459 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | 0.143 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | 0.000401 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | 0.000798 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | 0.0153 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | 1.99 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21

Location Code: WMWGORAP
Collected: 2/8/22 11:11
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02836

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | 0.0167 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | 0.000476 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | 0.132 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | 0.000470 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | 0.0134 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | 1.92 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 16:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/10/22 13:23 | 2/10/22 20:29 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/14/22 14:57 | 2/14/22 14:57 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 191 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/10/22 11:15 | 2/11/22 13:20 | | 1 | 570 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 128 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 60.4 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/16/22 16:57 | 2/16/22 16:57 | | 1 | 1.48 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21

Location Code: WMWGORAP

Collected: 2/8/22 11:11

Customer ID:

Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02836

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/10/22 10:33 | 2/10/22 10:33 | | 8 | 41.4 | mg/L | 4.00 | 8 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:28 | 2/10/22 16:28 | | 1 | 0.175 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:08 | 2/14/22 15:08 | | 16 | 241 | mg/L | 8.00 | 16 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/8/22 11:08 | 2/8/22 11:08 | | | 1038.26 | uS/cm | | | FA |
| pH | 2/8/22 11:08 | 2/8/22 11:08 | | | 10.26 | SU | | | FA |
| Temperature | 2/8/22 11:08 | 2/8/22 11:08 | | | 16.93 | C | | | FA |
| Turbidity | 2/8/22 11:08 | 2/8/22 11:08 | | | 0.78 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 11:11

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: BC02836

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02838 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.106 | 0.109 | 0.0990 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 2.79 | 20.0 |
| BC03238 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.102 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0907 | 0.0886 | 0.0917 | 0.0850 to 0.115 | 90.7 | 70.0 to 130 | 2.34 | 20.0 |
| BC03238 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0960 | 0.0976 | 0.0973 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 1.65 | 20.0 |
| BC02838 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0970 | 0.0973 | 0.100 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.309 | 20.0 |
| BC03238 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02838 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.227 | 0.227 | 0.0940 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.409 | 0.411 | 0.104 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 0.488 | 20.0 |
| BC02838 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.103 | 0.103 | 0.0981 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.0996 | 0.0983 | 0.103 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.31 | 20.0 |
| BC02838 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC02838 | Boron, Total | mg/L | -0.000727 | 0.0650 | 1.00 | 1.02 | 1.04 | 1.02 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC02838 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0941 | 0.0912 | 0.0943 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 3.13 | 20.0 |
| BC03238 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 10.8 | 10.7 | 4.85 | 4.25 to 5.75 | 103 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Calcium, Total | mg/L | -0.0128 | 0.152 | 5.00 | 10.6 | 10.1 | 4.73 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 4.83 | 20.0 |
| BC02838 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0973 | 0.0995 | 0.102 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.24 | 20.0 |
| BC03238 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.101 | 0.103 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC03238 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.201 | 0.201 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Iron, Total | mg/L | -0.000473 | 0.0176 | 0.2 | 0.205 | 0.207 | 0.200 | 0.170 to 0.230 | 97.2 | 70.0 to 130 | 0.971 | 20.0 |
| BC02838 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 11:11

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: BC02836

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03238 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC02838 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.232 | 0.227 | 0.202 | 0.170 to 0.230 | 97.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC02838 | Lithium, Total | mg/L | 0.000026 | 0.0154 | 0.200 | 0.235 | 0.242 | 0.202 | 0.170 to 0.230 | 99.2 | 70.0 to 130 | 2.94 | 20.0 |
| BC02838 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 7.08 | 6.91 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 2.43 | 20.0 |
| BC02838 | Magnesium, Total | mg/L | -0.0120 | 0.0462 | 5.00 | 7.08 | 7.09 | 5.03 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.141 | 20.0 |
| BC02838 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.109 | 0.111 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 1.82 | 20.0 |
| BC03238 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.135 | 0.136 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.738 | 20.0 |
| BC02838 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00414 | 0.00408 | 0.00415 | 0.00340 to 0.00460 | 104 | 70.0 to 130 | 1.46 | 20.0 |
| BC02838 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.103 | 0.102 | 0.0999 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.976 | 20.0 |
| BC03238 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 11.2 | 11.4 | 9.99 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 1.77 | 20.0 |
| BC03238 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 12.2 | 12.2 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0889 | 0.0886 | 0.0976 | 0.0850 to 0.115 | 74.5 | 70.0 to 130 | 0.338 | 20.0 |
| BC03238 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 10.1 | 10.2 | 1.04 | 0.850 to 1.15 | 35.0 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Silicon, Total | mg/L | -0.000052 | 0.0440 | 1.00 | 9.90 | 9.96 | 1.03 | 0.850 to 1.15 | 110 | 70.0 to 130 | 0.604 | 20.0 |
| BC02838 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 133 | 127 | 5.06 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 4.62 | 20.0 |
| BC02838 | Sodium, Total | mg/L | 0.00310 | 0.0660 | 5.00 | 123 | 123 | 4.97 | 4.25 to 5.75 | 0.00 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03238 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.110 | 0.104 | 0.111 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 5.61 | 20.0 |
| BC03237 | Total Organic Carbon | mg/L | 0.320 | 1.00 | 10.0 | 10.6 | 11.1 | 24.7 | | 95.4 | 80.0 to 120 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 11:11

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: BC02836

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02838 | Alkalinity, Total as CaCO3 | mg/L | | | | | 226 | 51.7 | 45.0 to 55.0 | | | 2.19 | 10.0 |
| BC02838 | Chloride | mg/L | -0.0265 | 1.00 | 50.0 | 80.4 | 27.2 | 10.1 | 9.00 to 11.0 | 95.8 | 80.0 to 120 | 17.8 | 20.0 |
| BC02838 | Fluoride | mg/L | -0.0198 | 0.125 | 2.50 | 2.71 | 0.122 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 2.49 | 20.0 |
| BC02838 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.02 | -0.002 | 1.84 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC02838 | Solids, Dissolved | mg/L | -2.00 | 25.0 | | | 283 | 52.0 | 40.0 to 60.0 | | | 0.704 | 10.0 |
| BC02838 | Sulfate | mg/L | -0.206 | 2.0 | 20.0 | 46.7 | 29.3 | 20.1 | 18.0 to 22.0 | 86.0 | 80.0 to 120 | 0.680 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21V

Location Code: WMWGORAP
Collected: 2/8/22 13:38
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02837

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 11:48 | | 1.015 | 0.0938 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 11:48 | | 1.015 | 37.2 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 11:48 | | 1.015 | 0.165 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 11:48 | | 1.015 | 0.0835 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 11:48 | | 1.015 | 10.3 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 11:48 | | 1 | 11.4 | mg/L | | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 11:48 | | 1.015 | 5.35 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:31 | | 20.3 | 432 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:31 | | 1.015 | 0.0938 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 12:46 | | 20.3 | 42.2 | mg/L | 1.4007 | 8.12 | | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:31 | | 1.015 | 0.140 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:31 | | 1.015 | 0.0797 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:31 | | 1.015 | 10.2 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:31 | | 1 | 11.6 | mg/L | | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:31 | | 1.015 | 5.40 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 12:46 | | 20.3 | 481 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | 0.0253 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | 0.00551 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | 0.0631 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | 0.000410 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | 0.0259 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | 0.0819 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | 73.2 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21V

Location Code: WMWGORAP
Collected: 2/8/22 13:38
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02837

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | 0.00979 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | 0.00494 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | 0.0556 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | 0.0256 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | 0.0769 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | 73.5 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/10/22 13:23 | 2/10/22 20:33 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/14/22 14:58 | 2/14/22 14:58 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 225 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/10/22 11:15 | 2/11/22 13:20 | | 1 | 1360 | mg/L | | 125 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 223 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 1.87 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/16/22 17:14 | 2/16/22 17:14 | | 1 | 4.98 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21V

Location Code: WMWGORAP

Collected: 2/8/22 13:38

Customer ID:

Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02837

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/10/22 10:34 | 2/10/22 10:34 | | 40 | 432 | mg/L | 20.00 | 40 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:29 | 2/10/22 16:29 | | 1 | 0.398 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:09 | 2/14/22 15:09 | | 25 | 451 | mg/L | 12.50 | 25 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/8/22 13:35 | 2/8/22 13:35 | | | 2592.81 | uS/cm | | | FA |
| pH | 2/8/22 13:35 | 2/8/22 13:35 | | | 7.98 | SU | | | FA |
| Temperature | 2/8/22 13:35 | 2/8/22 13:35 | | | 17.18 | C | | | FA |
| Turbidity | 2/8/22 13:35 | 2/8/22 13:35 | | | 4.76 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 13:38

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-21V

Laboratory ID Number: BC02837

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC02838 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.106 | 0.109 | 0.0990 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 2.79 | 20.0 |
| BC03238 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.102 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0907 | 0.0886 | 0.0917 | 0.0850 to 0.115 | 90.7 | 70.0 to 130 | 2.34 | 20.0 |
| BC03238 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0960 | 0.0976 | 0.0973 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 1.65 | 20.0 |
| BC02838 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0970 | 0.0973 | 0.100 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.309 | 20.0 |
| BC03238 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02838 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.227 | 0.227 | 0.0940 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.409 | 0.411 | 0.104 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 0.488 | 20.0 |
| BC02838 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.103 | 0.103 | 0.0981 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.0996 | 0.0983 | 0.103 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.31 | 20.0 |
| BC02838 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC02838 | Boron, Total | mg/L | -0.000727 | 0.0650 | 1.00 | 1.02 | 1.04 | 1.02 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC02838 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0941 | 0.0912 | 0.0943 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 3.13 | 20.0 |
| BC03238 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 10.8 | 10.7 | 4.85 | 4.25 to 5.75 | 103 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Calcium, Total | mg/L | -0.0128 | 0.152 | 5.00 | 10.6 | 10.1 | 4.73 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 4.83 | 20.0 |
| BC02838 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0973 | 0.0995 | 0.102 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.24 | 20.0 |
| BC03238 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.101 | 0.103 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC03238 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.201 | 0.201 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Iron, Total | mg/L | -0.000473 | 0.0176 | 0.2 | 0.205 | 0.207 | 0.200 | 0.170 to 0.230 | 97.2 | 70.0 to 130 | 0.971 | 20.0 |
| BC02838 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 13:38

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-21V

Laboratory ID Number: BC02837

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03238 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC02838 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.232 | 0.227 | 0.202 | 0.170 to 0.230 | 97.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC02838 | Lithium, Total | mg/L | 0.000026 | 0.0154 | 0.200 | 0.235 | 0.242 | 0.202 | 0.170 to 0.230 | 99.2 | 70.0 to 130 | 2.94 | 20.0 |
| BC02838 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 7.08 | 6.91 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 2.43 | 20.0 |
| BC02838 | Magnesium, Total | mg/L | -0.0120 | 0.0462 | 5.00 | 7.08 | 7.09 | 5.03 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.141 | 20.0 |
| BC02838 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.109 | 0.111 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 1.82 | 20.0 |
| BC03238 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.135 | 0.136 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.738 | 20.0 |
| BC02838 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00414 | 0.00408 | 0.00415 | 0.00340 to 0.00460 | 104 | 70.0 to 130 | 1.46 | 20.0 |
| BC02838 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.103 | 0.102 | 0.0999 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.976 | 20.0 |
| BC03238 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 11.2 | 11.4 | 9.99 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 1.77 | 20.0 |
| BC03238 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 12.2 | 12.2 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0889 | 0.0886 | 0.0976 | 0.0850 to 0.115 | 74.5 | 70.0 to 130 | 0.338 | 20.0 |
| BC03238 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 10.1 | 10.2 | 1.04 | 0.850 to 1.15 | 35.0 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Silicon, Total | mg/L | -0.000052 | 0.0440 | 1.00 | 9.90 | 9.96 | 1.03 | 0.850 to 1.15 | 110 | 70.0 to 130 | 0.604 | 20.0 |
| BC02838 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 133 | 127 | 5.06 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 4.62 | 20.0 |
| BC02838 | Sodium, Total | mg/L | 0.00310 | 0.0660 | 5.00 | 123 | 123 | 4.97 | 4.25 to 5.75 | 0.00 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03238 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.110 | 0.104 | 0.111 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 5.61 | 20.0 |
| BC03237 | Total Organic Carbon | mg/L | 0.320 | 1.00 | 10.0 | 10.6 | 11.1 | 24.7 | | 95.4 | 80.0 to 120 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 13:38

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-21V

Laboratory ID Number: BC02837

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02838 | Alkalinity, Total as CaCO3 | mg/L | | | | | 226 | 51.7 | 45.0 to 55.0 | | | 2.19 | 10.0 |
| BC02838 | Chloride | mg/L | -0.0265 | 1.00 | 50.0 | 80.4 | 27.2 | 10.1 | 9.00 to 11.0 | 95.8 | 80.0 to 120 | 17.8 | 20.0 |
| BC02838 | Fluoride | mg/L | -0.0198 | 0.125 | 2.50 | 2.71 | 0.122 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 2.49 | 20.0 |
| BC02838 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.02 | -0.002 | 1.84 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC02838 | Solids, Dissolved | mg/L | -2.00 | 25.0 | | | 283 | 52.0 | 40.0 to 60.0 | | | 0.704 | 10.0 |
| BC02838 | Sulfate | mg/L | -0.206 | 2.0 | 20.0 | 46.7 | 29.3 | 20.1 | 18.0 to 22.0 | 86.0 | 80.0 to 120 | 0.680 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31H

Location Code: WMWGORAP
Collected: 2/8/22 16:04
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02838

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 11:50 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 11:50 | | 1.015 | 5.73 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 11:50 | | 1.015 | 0.0107 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 11:50 | | 1.015 | 0.0366 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 11:50 | | 1.015 | 2.05 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 11:50 | | 1 | 18.8 | mg/L | | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 11:50 | | 1.015 | 8.80 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:33 | | 10.15 | 123 | mg/L | 0.3045 | 4.06 | RA | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:33 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:33 | | 1.015 | 5.64 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:33 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:33 | | 1.015 | 0.0370 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:33 | | 1.015 | 2.08 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:33 | | 1 | 20.9 | mg/L | | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:33 | | 1.015 | 9.75 | mg/L | 0.02030 | 0.25375 | RA | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 12:48 | | 10.15 | 135 | mg/L | 0.3045 | 4.06 | RA | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | 0.0196 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | 0.000341 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | 0.140 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | 0.000271 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | 0.00989 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | 0.00596 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | 1.74 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31H

Location Code: WMWGORAP
Collected: 2/8/22 16:04
Customer ID:
Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02838

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | 0.0119 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | 0.000379 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | 0.134 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | 0.00971 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | 0.00589 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | 1.71 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | 0.0144 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 16:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/10/22 13:23 | 2/10/22 20:37 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/14/22 14:59 | 2/14/22 14:59 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 231 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/10/22 11:15 | 2/11/22 13:20 | | 1 | 285 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 225 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/17/22 11:20 | 2/17/22 12:20 | | 1 | 5.96 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/16/22 17:32 | 2/16/22 17:32 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31H

Location Code: WMWGORAP

Collected: 2/8/22 16:04

Customer ID:

Submittal Date: 2/9/22 16:41

Laboratory ID Number: BC02838

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/10/22 10:35 | 2/10/22 10:35 | | 5 | 32.5 | mg/L | 2.50 | 5 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:31 | 2/10/22 16:31 | | 1 | 0.119 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 14:58 | 2/14/22 14:58 | | 1 | 29.5 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/8/22 16:00 | 2/8/22 16:00 | | | 478.43 | uS/cm | | | FA |
| pH | 2/8/22 16:00 | 2/8/22 16:00 | | | 8.53 | SU | | | FA |
| Temperature | 2/8/22 16:00 | 2/8/22 16:00 | | | 16.02 | C | | | FA |
| Turbidity | 2/8/22 16:00 | 2/8/22 16:00 | | | 1.16 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 16:04

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-31H

Laboratory ID Number: BC02838

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC02838 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.106 | 0.109 | 0.0990 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 2.79 | 20.0 |
| BC03238 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.102 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0907 | 0.0886 | 0.0917 | 0.0850 to 0.115 | 90.7 | 70.0 to 130 | 2.34 | 20.0 |
| BC03238 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0960 | 0.0976 | 0.0973 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 1.65 | 20.0 |
| BC02838 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0970 | 0.0973 | 0.100 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.309 | 20.0 |
| BC03238 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02838 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.227 | 0.227 | 0.0940 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.409 | 0.411 | 0.104 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 0.488 | 20.0 |
| BC02838 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.103 | 0.103 | 0.0981 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.0996 | 0.0983 | 0.103 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.31 | 20.0 |
| BC02838 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC02838 | Boron, Total | mg/L | -0.000727 | 0.0650 | 1.00 | 1.02 | 1.04 | 1.02 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC02838 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0941 | 0.0912 | 0.0943 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 3.13 | 20.0 |
| BC03238 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 10.8 | 10.7 | 4.85 | 4.25 to 5.75 | 103 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Calcium, Total | mg/L | -0.0128 | 0.152 | 5.00 | 10.6 | 10.1 | 4.73 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 4.83 | 20.0 |
| BC02838 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0973 | 0.0995 | 0.102 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.24 | 20.0 |
| BC03238 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.101 | 0.103 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC03238 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02838 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.201 | 0.201 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Iron, Total | mg/L | -0.000473 | 0.0176 | 0.2 | 0.205 | 0.207 | 0.200 | 0.170 to 0.230 | 97.2 | 70.0 to 130 | 0.971 | 20.0 |
| BC02838 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 16:04

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-31H

Laboratory ID Number: BC02838

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03238 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC02838 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.232 | 0.227 | 0.202 | 0.170 to 0.230 | 97.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC02838 | Lithium, Total | mg/L | 0.000026 | 0.0154 | 0.200 | 0.235 | 0.242 | 0.202 | 0.170 to 0.230 | 99.2 | 70.0 to 130 | 2.94 | 20.0 |
| BC02838 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 7.08 | 6.91 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 2.43 | 20.0 |
| BC02838 | Magnesium, Total | mg/L | -0.0120 | 0.0462 | 5.00 | 7.08 | 7.09 | 5.03 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.141 | 20.0 |
| BC02838 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.109 | 0.111 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 1.82 | 20.0 |
| BC03238 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.135 | 0.136 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.738 | 20.0 |
| BC02838 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00414 | 0.00408 | 0.00415 | 0.00340 to 0.00460 | 104 | 70.0 to 130 | 1.46 | 20.0 |
| BC02838 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.103 | 0.102 | 0.0999 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.976 | 20.0 |
| BC03238 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 11.2 | 11.4 | 9.99 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 1.77 | 20.0 |
| BC03238 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 12.2 | 12.2 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0889 | 0.0886 | 0.0976 | 0.0850 to 0.115 | 74.5 | 70.0 to 130 | 0.338 | 20.0 |
| BC03238 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 10.1 | 10.2 | 1.04 | 0.850 to 1.15 | 35.0 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Silicon, Total | mg/L | -0.000052 | 0.0440 | 1.00 | 9.90 | 9.96 | 1.03 | 0.850 to 1.15 | 110 | 70.0 to 130 | 0.604 | 20.0 |
| BC02838 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 133 | 127 | 5.06 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 4.62 | 20.0 |
| BC02838 | Sodium, Total | mg/L | 0.00310 | 0.0660 | 5.00 | 123 | 123 | 4.97 | 4.25 to 5.75 | 0.00 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03238 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.110 | 0.104 | 0.111 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 5.61 | 20.0 |
| BC03237 | Total Organic Carbon | mg/L | 0.320 | 1.00 | 10.0 | 10.6 | 11.1 | 24.7 | | 95.4 | 80.0 to 120 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/8/22 16:04

Customer ID:

Delivery Date: 2/9/22 16:41

Description: Gorgas Ash Pond - MW-31H

Laboratory ID Number: BC02838

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02838 | Alkalinity, Total as CaCO3 | mg/L | | | | | 226 | 51.7 | 45.0 to 55.0 | | | 2.19 | 10.0 |
| BC02838 | Chloride | mg/L | -0.0265 | 1.00 | 50.0 | 80.4 | 27.2 | 10.1 | 9.00 to 11.0 | 95.8 | 80.0 to 120 | 17.8 | 20.0 |
| BC02838 | Fluoride | mg/L | -0.0198 | 0.125 | 2.50 | 2.71 | 0.122 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 2.49 | 20.0 |
| BC02838 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.02 | -0.002 | 1.84 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC02838 | Solids, Dissolved | mg/L | -2.00 | 25.0 | | | 283 | 52.0 | 40.0 to 60.0 | | | 0.704 | 10.0 |
| BC02838 | Sulfate | mg/L | -0.206 | 2.0 | 20.0 | 46.7 | 29.3 | 20.1 | 18.0 to 22.0 | 86.0 | 80.0 to 120 | 0.680 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-22

Location Code: WMWGORAP
Collected: 2/14/22 10:21
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03236

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:20 | | 1.015 | 0.0470 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:20 | | 1.015 | 18.1 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 11:12 | | 20.3 | 5.42 | mg/L | 0.1624 | 0.812 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:20 | | 1.015 | 0.0550 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:20 | | 1.015 | 6.12 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:20 | | 1 | 14.3 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:20 | | 1.015 | 6.66 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:12 | | 20.3 | 141 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:25 | | 1.015 | 0.0463 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 08:25 | | 1.015 | 18.2 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 10:17 | | 20.3 | 5.56 | mg/L | 0.1624 | 0.812 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:25 | | 1.015 | 0.0530 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:25 | | 1.015 | 6.07 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:25 | | 1 | 14.3 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:25 | | 1.015 | 6.67 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:17 | | 20.3 | 143 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | 0.00358 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | 0.0695 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | 0.000221 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | 0.0932 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | 0.00419 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | 1.95 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-22

Location Code: WMWGORAP
Collected: 2/14/22 10:21
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03236

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | 0.00322 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | 0.0635 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | 0.0944 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | 0.00410 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | 1.93 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 16:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 18:30 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 12:57 | 2/21/22 12:57 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 294 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 423 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 290 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 3.85 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/16/22 17:51 | 2/16/22 17:51 | | 1 | 1.11 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-22

Location Code: WMWGORAP

Collected: 2/14/22 10:21

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03236

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:38 | 2/16/22 09:38 | | 1 | 3.10 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:19 | 2/16/22 11:19 | | 1 | 0.422 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:33 | 2/22/22 11:33 | | 4 | 91.1 | mg/L | 2.00 | 4 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/14/22 10:18 | 2/14/22 10:18 | | | 714.25 | uS/cm | | | FA |
| pH | 2/14/22 10:18 | 2/14/22 10:18 | | | 7.40 | SU | | | FA |
| Temperature | 2/14/22 10:18 | 2/14/22 10:18 | | | 17.01 | C | | | FA |
| Turbidity | 2/14/22 10:18 | 2/14/22 10:18 | | | 1.98 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 10:21

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - PZ-22

Laboratory ID Number: BC03236

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC02838 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.106 | 0.109 | 0.0990 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 2.79 | 20.0 |
| BC03238 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.102 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0907 | 0.0886 | 0.0917 | 0.0850 to 0.115 | 90.7 | 70.0 to 130 | 2.34 | 20.0 |
| BC03238 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0960 | 0.0976 | 0.0973 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 1.65 | 20.0 |
| BC02838 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0970 | 0.0973 | 0.100 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.309 | 20.0 |
| BC03238 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02838 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.227 | 0.227 | 0.0940 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.409 | 0.411 | 0.104 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 0.488 | 20.0 |
| BC02838 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.103 | 0.103 | 0.0981 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.0996 | 0.0983 | 0.103 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.31 | 20.0 |
| BC03245 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 1.07 | 1.08 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.08 | 1.07 | 0.988 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0941 | 0.0912 | 0.0943 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 3.13 | 20.0 |
| BC03238 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC03245 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 6.26 | 6.22 | 4.91 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.641 | 20.0 |
| BC03245 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 6.53 | 6.45 | 4.87 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 1.23 | 20.0 |
| BC02838 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0973 | 0.0995 | 0.102 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.24 | 20.0 |
| BC03238 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.101 | 0.103 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC03238 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC03245 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.279 | 0.272 | 0.200 | 0.170 to 0.230 | 98.3 | 70.0 to 130 | 2.54 | 20.0 |
| BC03245 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.315 | 0.313 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.637 | 20.0 |
| BC02838 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 10:21

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - PZ-22

Laboratory ID Number: BC03236

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03238 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03245 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.248 | 0.242 | 0.194 | 0.170 to 0.230 | 97.0 | 70.0 to 130 | 2.45 | 20.0 |
| BC03245 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.258 | 0.258 | 0.204 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 5.29 | 5.22 | 5.07 | 4.25 to 5.75 | 95.8 | 70.0 to 130 | 1.33 | 20.0 |
| BC03245 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 5.57 | 5.54 | 5.16 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.540 | 20.0 |
| BC02838 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.109 | 0.111 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 1.82 | 20.0 |
| BC03238 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.135 | 0.136 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.738 | 20.0 |
| BC03245 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.0039 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 97.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.103 | 0.102 | 0.0999 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.976 | 20.0 |
| BC03238 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 11.2 | 11.4 | 9.99 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 1.77 | 20.0 |
| BC03238 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 12.2 | 12.2 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0889 | 0.0886 | 0.0976 | 0.0850 to 0.115 | 74.5 | 70.0 to 130 | 0.338 | 20.0 |
| BC03238 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 9.17 | 9.20 | 1.00 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.327 | 20.0 |
| BC03245 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 9.34 | 9.33 | 1.02 | 0.850 to 1.15 | 108 | 70.0 to 130 | 0.107 | 20.0 |
| BC03245 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 186 | 190 | 4.98 | 4.25 to 5.75 | -100 | 70.0 to 130 | 2.13 | 20.0 |
| BC03245 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 185 | 179 | 5.12 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC02838 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03238 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.110 | 0.104 | 0.111 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 5.61 | 20.0 |
| BC03237 | Total Organic Carbon | mg/L | 0.320 | 1.00 | 10.0 | 10.6 | 11.1 | 24.7 | | 95.4 | 80.0 to 120 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 10:21

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - PZ-22

Laboratory ID Number: BC03236

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|------|---------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03245 | Chloride | mg/L | -0.0522 | 1.00 | 10.0 | 18.5 | 8.33 | 10.2 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC03242 | Fluoride | mg/L | -0.032 | 0.125 | 2.50 | 2.64 | 0.104 | 2.60 | 2.25 to 2.75 | 101 | 80.0 to 120 | 3.77 | 20.0 |
| BC03245 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.75 | -0.022 | 1.91 | 1.80 to 2.20 | 87.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC03239 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 500 | 50.0 | 40.0 to 60.0 | | | 2.76 | 10.0 |
| BC03245 | Sulfate | mg/L | -0.0815 | 2.0 | 20.0 | 23.3 | 3.65 | 20.4 | 18.0 to 22.0 | 96.6 | 80.0 to 120 | 8.90 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17

Location Code: WMWGORAP
Collected: 2/14/22 11:42
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03237

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:22 | | 1.015 | 0.0730 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:22 | | 1.015 | 2.17 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:22 | | 1.015 | 0.119 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:22 | | 1.015 | 0.0572 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:22 | | 1.015 | 0.703 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:22 | | 1 | 16.9 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:22 | | 1.015 | 7.90 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:14 | | 20.3 | 184 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:26 | | 1.015 | 0.0717 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 08:26 | | 1.015 | 2.10 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 08:26 | | 1.015 | 0.0488 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:26 | | 1.015 | 0.0562 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:26 | | 1.015 | 0.677 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:26 | | 1 | 16.1 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:26 | | 1.015 | 7.54 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:19 | | 20.3 | 191 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | 0.0490 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | 0.00112 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | 0.0945 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | 0.000337 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | 0.00632 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | 0.00252 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | 0.830 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17

Location Code: WMWGORAP
Collected: 2/14/22 11:42
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03237

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | 0.00828 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | 0.000965 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | 0.0818 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | 0.00504 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | 0.00241 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | 0.747 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 18:34 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 12:59 | 2/21/22 12:59 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 382 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 448 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 369 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 12.6 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/16/22 18:10 | 2/16/22 18:10 | | 1 | 1.06 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17

Location Code: WMWGORAP

Collected: 2/14/22 11:42

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03237

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:39 | 2/16/22 09:39 | | 1 | 7.15 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:20 | 2/16/22 11:20 | | 1 | 0.206 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:20 | 2/22/22 11:20 | | 1 | 14.4 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/14/22 11:39 | 2/14/22 11:39 | | | 723.19 | uS/cm | | | FA |
| pH | 2/14/22 11:39 | 2/14/22 11:39 | | | 8.32 | SU | | | FA |
| Temperature | 2/14/22 11:39 | 2/14/22 11:39 | | | 17.11 | C | | | FA |
| Turbidity | 2/14/22 11:39 | 2/14/22 11:39 | | | 2.15 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 11:42

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: BC03237

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC02838 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.106 | 0.109 | 0.0990 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 2.79 | 20.0 |
| BC03238 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.102 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02838 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0907 | 0.0886 | 0.0917 | 0.0850 to 0.115 | 90.7 | 70.0 to 130 | 2.34 | 20.0 |
| BC03238 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0960 | 0.0976 | 0.0973 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 1.65 | 20.0 |
| BC02838 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0970 | 0.0973 | 0.100 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.309 | 20.0 |
| BC03238 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02838 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.227 | 0.227 | 0.0940 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.409 | 0.411 | 0.104 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 0.488 | 20.0 |
| BC02838 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.103 | 0.103 | 0.0981 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.0996 | 0.0983 | 0.103 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.31 | 20.0 |
| BC03245 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 1.07 | 1.08 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.08 | 1.07 | 0.988 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.930 | 20.0 |
| BC02838 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0941 | 0.0912 | 0.0943 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 3.13 | 20.0 |
| BC03238 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC03245 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 6.26 | 6.22 | 4.91 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.641 | 20.0 |
| BC03245 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 6.53 | 6.45 | 4.87 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 1.23 | 20.0 |
| BC02838 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0973 | 0.0995 | 0.102 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.24 | 20.0 |
| BC03238 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.101 | 0.103 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC03238 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC03245 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.279 | 0.272 | 0.200 | 0.170 to 0.230 | 98.3 | 70.0 to 130 | 2.54 | 20.0 |
| BC03245 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.315 | 0.313 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.637 | 20.0 |
| BC02838 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/14/22 11:42
Customer ID:
Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: BC03237

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03238 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03245 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.248 | 0.242 | 0.194 | 0.170 to 0.230 | 97.0 | 70.0 to 130 | 2.45 | 20.0 |
| BC03245 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.258 | 0.258 | 0.204 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 5.29 | 5.22 | 5.07 | 4.25 to 5.75 | 95.8 | 70.0 to 130 | 1.33 | 20.0 |
| BC03245 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 5.57 | 5.54 | 5.16 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.540 | 20.0 |
| BC02838 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.109 | 0.111 | 0.104 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 1.82 | 20.0 |
| BC03238 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.135 | 0.136 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.738 | 20.0 |
| BC03245 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.0039 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 97.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.103 | 0.102 | 0.0999 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.976 | 20.0 |
| BC03238 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 11.2 | 11.4 | 9.99 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 1.77 | 20.0 |
| BC03238 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 12.2 | 12.2 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC02838 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0889 | 0.0886 | 0.0976 | 0.0850 to 0.115 | 74.5 | 70.0 to 130 | 0.338 | 20.0 |
| BC03238 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 9.17 | 9.20 | 1.00 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.327 | 20.0 |
| BC03245 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 9.34 | 9.33 | 1.02 | 0.850 to 1.15 | 108 | 70.0 to 130 | 0.107 | 20.0 |
| BC03245 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 186 | 190 | 4.98 | 4.25 to 5.75 | -100 | 70.0 to 130 | 2.13 | 20.0 |
| BC03245 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 185 | 179 | 5.12 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC02838 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03238 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.110 | 0.104 | 0.111 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 5.61 | 20.0 |
| BC03237 | Total Organic Carbon | mg/L | 0.320 | 1.00 | 10.0 | 10.6 | 11.1 | 24.7 | | 95.4 | 80.0 to 120 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 11:42

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: BC03237

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03245 | Chloride | mg/L | -0.0522 | 1.00 | 10.0 | 18.5 | 8.33 | 10.2 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC03242 | Fluoride | mg/L | -0.032 | 0.125 | 2.50 | 2.64 | 0.104 | 2.60 | 2.25 to 2.75 | 101 | 80.0 to 120 | 3.77 | 20.0 |
| BC03245 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.75 | -0.022 | 1.91 | 1.80 to 2.20 | 87.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC03239 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 500 | 50.0 | 40.0 to 60.0 | | | 2.76 | 10.0 |
| BC03245 | Sulfate | mg/L | -0.0815 | 2.0 | 20.0 | 23.3 | 3.65 | 20.4 | 18.0 to 22.0 | 96.6 | 80.0 to 120 | 8.90 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17V

Location Code: WMWGORAP
Collected: 2/14/22 12:54
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03238

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:23 | | 1.015 | 0.0386 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:23 | | 1.015 | 30.1 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:23 | | 1.015 | 1.07 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:23 | | 1.015 | 0.0499 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:23 | | 1.015 | 12.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:23 | | 1 | 23.1 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:23 | | 1.015 | 10.8 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:47 | | 20.3 | 94.7 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:28 | | 1.015 | 0.0378 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 08:28 | | 1.015 | 31.4 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 08:28 | | 1.015 | 1.02 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:28 | | 1.015 | 0.0495 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:28 | | 1.015 | 12.7 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:28 | | 1 | 23.3 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:28 | | 1.015 | 10.9 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:21 | | 20.3 | 91.6 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | 0.000469 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | 0.315 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | 0.000205 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | 0.0316 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | 0.00276 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | 2.13 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17V

Location Code: WMWGORAP
Collected: 2/14/22 12:54
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03238

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | 0.000301 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | 0.278 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | 0.000231 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | 0.0284 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | 0.00234 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | 2.04 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | 0.000995 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 17:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 18:38 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:01 | 2/21/22 13:01 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 348 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 365 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 344 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 3.72 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/18/22 11:51 | 2/18/22 11:51 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17V

Location Code: WMWGORAP

Collected: 2/14/22 12:54

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03238

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:40 | 2/16/22 09:40 | | 1 | 3.26 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:22 | 2/16/22 11:22 | | 1 | 0.237 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:21 | 2/22/22 11:21 | | 1 | 9.09 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/14/22 12:51 | 2/14/22 12:51 | | | 533.41 | uS/cm | | | FA |
| pH | 2/14/22 12:51 | 2/14/22 12:51 | | | 7.43 | SU | | | FA |
| Temperature | 2/14/22 12:51 | 2/14/22 12:51 | | | 16.84 | C | | | FA |
| Turbidity | 2/14/22 12:51 | 2/14/22 12:51 | | | 1.86 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 12:54

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: BC03238

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03247 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.0999 | 0.0998 | 0.0990 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.100 | 20.0 |
| BC03238 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.102 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC03247 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0930 | 0.0937 | 0.0917 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.750 | 20.0 |
| BC03238 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0960 | 0.0976 | 0.0973 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 1.65 | 20.0 |
| BC03247 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0999 | 0.102 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 2.08 | 20.0 |
| BC03238 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC03247 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.295 | 0.295 | 0.0940 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.409 | 0.411 | 0.104 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 0.488 | 20.0 |
| BC03247 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.0962 | 0.107 | 0.0981 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 10.6 | 20.0 |
| BC03238 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.0996 | 0.0983 | 0.103 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.31 | 20.0 |
| BC03245 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 1.07 | 1.08 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.08 | 1.07 | 0.988 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.930 | 20.0 |
| BC03247 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0925 | 0.0926 | 0.0943 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 0.108 | 20.0 |
| BC03238 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC03245 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 6.26 | 6.22 | 4.91 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.641 | 20.0 |
| BC03245 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 6.53 | 6.45 | 4.87 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 1.23 | 20.0 |
| BC03247 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0996 | 0.0980 | 0.102 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.62 | 20.0 |
| BC03238 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03238 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC03245 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.279 | 0.272 | 0.200 | 0.170 to 0.230 | 98.3 | 70.0 to 130 | 2.54 | 20.0 |
| BC03245 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.315 | 0.313 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.637 | 20.0 |
| BC03247 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.0974 | 0.102 | 0.101 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/14/22 12:54
Customer ID:
Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: BC03238

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03238 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03245 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.248 | 0.242 | 0.194 | 0.170 to 0.230 | 97.0 | 70.0 to 130 | 2.45 | 20.0 |
| BC03245 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.258 | 0.258 | 0.204 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 5.29 | 5.22 | 5.07 | 4.25 to 5.75 | 95.8 | 70.0 to 130 | 1.33 | 20.0 |
| BC03245 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 5.57 | 5.54 | 5.16 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.540 | 20.0 |
| BC03247 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.135 | 0.136 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.738 | 20.0 |
| BC03245 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.0039 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 97.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.154 | 0.157 | 0.0999 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 1.93 | 20.0 |
| BC03238 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 10.8 | 10.8 | 9.99 | 8.50 to 11.5 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03238 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 12.2 | 12.2 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0991 | 0.100 | 0.0976 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.904 | 20.0 |
| BC03238 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 9.17 | 9.20 | 1.00 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.327 | 20.0 |
| BC03245 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 9.34 | 9.33 | 1.02 | 0.850 to 1.15 | 108 | 70.0 to 130 | 0.107 | 20.0 |
| BC03245 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 186 | 190 | 4.98 | 4.25 to 5.75 | -100 | 70.0 to 130 | 2.13 | 20.0 |
| BC03245 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 185 | 179 | 5.12 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC03247 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.0973 | 0.100 | 0.103 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.74 | 20.0 |
| BC03238 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.110 | 0.104 | 0.111 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 5.61 | 20.0 |
| BC03246 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.3 | 10.4 | 26.0 | | 103 | 80.0 to 120 | 0.966 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 12:54

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: BC03238

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03245 | Chloride | mg/L | -0.0522 | 1.00 | 10.0 | 18.5 | 8.33 | 10.2 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC03242 | Fluoride | mg/L | -0.032 | 0.125 | 2.50 | 2.64 | 0.104 | 2.60 | 2.25 to 2.75 | 101 | 80.0 to 120 | 3.77 | 20.0 |
| BC03245 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.75 | -0.022 | 1.91 | 1.80 to 2.20 | 87.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC03239 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 500 | 50.0 | 40.0 to 60.0 | | | 2.76 | 10.0 |
| BC03245 | Sulfate | mg/L | -0.0815 | 2.0 | 20.0 | 23.3 | 3.65 | 20.4 | 18.0 to 22.0 | 96.6 | 80.0 to 120 | 8.90 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36H

Location Code: WMWGORAP
Collected: 2/14/22 15:28
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03239

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:25 | | 1.015 | 0.0467 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:25 | | 1.015 | 4.69 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:25 | | 1.015 | 0.0685 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:25 | | 1.015 | 0.0417 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:25 | | 1.015 | 1.22 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:25 | | 1 | 14.5 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:25 | | 1.015 | 6.76 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:18 | | 20.3 | 173 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:30 | | 1.015 | 0.0466 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 08:30 | | 1.015 | 4.70 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 08:30 | | 1.015 | 0.0452 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:30 | | 1.015 | 0.0407 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:30 | | 1.015 | 1.19 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:30 | | 1 | 14.6 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:30 | | 1.015 | 6.84 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:23 | | 20.3 | 184 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | 0.0236 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | 0.00235 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | 0.136 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | 0.00997 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | 0.0189 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | 6.47 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36H

Location Code: WMWGORAP
Collected: 2/14/22 15:28
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03239

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:44 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | 0.0140 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | 0.00210 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | 0.122 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | 0.00942 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | 0.0181 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | 6.32 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | 0.000768 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 17:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 18:42 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:03 | 2/21/22 13:03 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 216 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 514 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 213 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 3.24 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 00:08 | 2/19/22 00:08 | | 1 | 2.90 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36H

Location Code: WMWGORAP
Collected: 2/14/22 15:28
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03239

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:52 | 2/16/22 09:52 | | 5 | 77.7 | mg/L | 2.50 | 5 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:23 | 2/16/22 11:23 | | 1 | 0.238 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:34 | 2/22/22 11:34 | | 5 | 112 | mg/L | 2.50 | 5 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/14/22 15:24 | 2/14/22 15:24 | | | 897.68 | uS/cm | | | FA |
| pH | 2/14/22 15:24 | 2/14/22 15:24 | | | 8.22 | SU | | | FA |
| Temperature | 2/14/22 15:24 | 2/14/22 15:24 | | | 18.68 | C | | | FA |
| Turbidity | 2/14/22 15:24 | 2/14/22 15:24 | | | 2.2 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 15:28

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-36H

Laboratory ID Number: BC03239

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03247 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.0999 | 0.0998 | 0.0990 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.100 | 20.0 |
| BC03248 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0930 | 0.0937 | 0.0917 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.750 | 20.0 |
| BC03248 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0957 | 0.0967 | 0.0973 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.04 | 20.0 |
| BC03247 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0999 | 0.102 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 2.08 | 20.0 |
| BC03248 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.102 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.295 | 0.295 | 0.0940 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.0962 | 0.107 | 0.0981 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 10.6 | 20.0 |
| BC03248 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC03245 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 1.07 | 1.08 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.08 | 1.07 | 0.988 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.930 | 20.0 |
| BC03247 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0925 | 0.0926 | 0.0943 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 0.108 | 20.0 |
| BC03248 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 6.26 | 6.22 | 4.91 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.641 | 20.0 |
| BC03245 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 6.53 | 6.45 | 4.87 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 1.23 | 20.0 |
| BC03247 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0996 | 0.0980 | 0.102 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.62 | 20.0 |
| BC03248 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.104 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC03247 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03248 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.108 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC03245 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.279 | 0.272 | 0.200 | 0.170 to 0.230 | 98.3 | 70.0 to 130 | 2.54 | 20.0 |
| BC03245 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.315 | 0.313 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.637 | 20.0 |
| BC03247 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.0974 | 0.102 | 0.101 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/14/22 15:28
Customer ID:
Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-36H

Laboratory ID Number: BC03239

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03248 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.248 | 0.242 | 0.194 | 0.170 to 0.230 | 97.0 | 70.0 to 130 | 2.45 | 20.0 |
| BC03245 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.258 | 0.258 | 0.204 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 5.29 | 5.22 | 5.07 | 4.25 to 5.75 | 95.8 | 70.0 to 130 | 1.33 | 20.0 |
| BC03245 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 5.57 | 5.54 | 5.16 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.540 | 20.0 |
| BC03247 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.0039 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 97.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.154 | 0.157 | 0.0999 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 1.93 | 20.0 |
| BC03248 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03247 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 10.8 | 10.8 | 9.99 | 8.50 to 11.5 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 10.3 | 10.3 | 10.3 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0991 | 0.100 | 0.0976 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.904 | 20.0 |
| BC03248 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.106 | 0.108 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03245 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 9.17 | 9.20 | 1.00 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.327 | 20.0 |
| BC03245 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 9.34 | 9.33 | 1.02 | 0.850 to 1.15 | 108 | 70.0 to 130 | 0.107 | 20.0 |
| BC03245 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 186 | 190 | 4.98 | 4.25 to 5.75 | -100 | 70.0 to 130 | 2.13 | 20.0 |
| BC03245 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 185 | 179 | 5.12 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC03247 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.0973 | 0.100 | 0.103 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.74 | 20.0 |
| BC03248 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC03246 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.3 | 10.4 | 26.0 | | 103 | 80.0 to 120 | 0.966 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 15:28

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-36H

Laboratory ID Number: BC03239

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|------|---------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03245 | Chloride | mg/L | -0.0522 | 1.00 | 10.0 | 18.5 | 8.33 | 10.2 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC03242 | Fluoride | mg/L | -0.032 | 0.125 | 2.50 | 2.64 | 0.104 | 2.60 | 2.25 to 2.75 | 101 | 80.0 to 120 | 3.77 | 20.0 |
| BC03245 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.75 | -0.022 | 1.91 | 1.80 to 2.20 | 87.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC03239 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 500 | 50.0 | 40.0 to 60.0 | | | 2.76 | 10.0 |
| BC03245 | Sulfate | mg/L | -0.0815 | 2.0 | 20.0 | 23.3 | 3.65 | 20.4 | 18.0 to 22.0 | 96.6 | 80.0 to 120 | 8.90 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S

Location Code: WMWGORAP
Collected: 2/14/22 11:18
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03240

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:27 | | 1.015 | 0.978 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 11:19 | | 20.3 | 60.1 | mg/L | 1.4007 | 8.12 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 11:19 | | 20.3 | 5.98 | mg/L | 0.1624 | 0.812 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:27 | | 1.015 | 0.0625 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:27 | | 1.015 | 20.4 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:27 | | 1 | 10.3 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:27 | | 1.015 | 4.83 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 09:27 | | 1.015 | 11.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:32 | | 1.015 | 0.992 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 10:25 | | 20.3 | 55.6 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 10:25 | | 20.3 | 5.06 | mg/L | 0.1624 | 0.812 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:32 | | 1.015 | 0.0662 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:32 | | 1.015 | 20.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:32 | | 1 | 10.3 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:32 | | 1.015 | 4.79 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 08:32 | | 1.015 | 11.2 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | 0.000710 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | 0.0203 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | 0.0106 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | 0.0970 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | 0.000259 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | 0.000652 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/22/22 11:56 | | 10.15 | 2.50 | mg/L | 0.000680 | 0.00203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | 0.0411 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | 3.78 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S

Location Code: WMWGORAP
Collected: 2/14/22 11:18
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03240

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | 0.000854 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | 0.000585 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | 0.00593 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | 0.0825 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | 0.000587 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/18/22 15:49 | | 10.15 | 2.56 | mg/L | 0.000680 | 0.00203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | 0.0418 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | 3.81 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | 0.00145 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 17:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 18:46 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:05 | 2/21/22 13:05 | | 1 | 0.273 | mg/L as N | 0.20 | 0.3 | J |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 113 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 299 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 112 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 0.65 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 00:28 | 2/19/22 00:28 | | 1 | 1.14 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S

Location Code: WMWGORAP

Collected: 2/14/22 11:18

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03240

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:53 | 2/16/22 09:53 | | 2 | 20.6 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:24 | 2/16/22 11:24 | | 1 | 0.164 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:36 | 2/22/22 11:36 | | 8 | 115 | mg/L | 4.00 | 8 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/14/22 11:14 | 2/14/22 11:14 | | | 480.16 | uS/cm | | | FA |
| pH | 2/14/22 11:14 | 2/14/22 11:14 | | | 6.99 | SU | | | FA |
| Temperature | 2/14/22 11:14 | 2/14/22 11:14 | | | 16.98 | C | | | FA |
| Turbidity | 2/14/22 11:14 | 2/14/22 11:14 | | | 4.99 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 11:18

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: BC03240

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03247 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.0999 | 0.0998 | 0.0990 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.100 | 20.0 |
| BC03248 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0930 | 0.0937 | 0.0917 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.750 | 20.0 |
| BC03248 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0957 | 0.0967 | 0.0973 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.04 | 20.0 |
| BC03247 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0999 | 0.102 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 2.08 | 20.0 |
| BC03248 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.102 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.295 | 0.295 | 0.0940 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.0962 | 0.107 | 0.0981 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 10.6 | 20.0 |
| BC03248 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC03245 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 1.07 | 1.08 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.08 | 1.07 | 0.988 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.930 | 20.0 |
| BC03247 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0925 | 0.0926 | 0.0943 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 0.108 | 20.0 |
| BC03248 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 6.26 | 6.22 | 4.91 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.641 | 20.0 |
| BC03245 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 6.53 | 6.45 | 4.87 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 1.23 | 20.0 |
| BC03247 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0996 | 0.0980 | 0.102 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.62 | 20.0 |
| BC03248 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.104 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC03247 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03248 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.108 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC03245 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.279 | 0.272 | 0.200 | 0.170 to 0.230 | 98.3 | 70.0 to 130 | 2.54 | 20.0 |
| BC03245 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.315 | 0.313 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.637 | 20.0 |
| BC03247 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.0974 | 0.102 | 0.101 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/14/22 11:18
Customer ID:
Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: BC03240

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03248 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.248 | 0.242 | 0.194 | 0.170 to 0.230 | 97.0 | 70.0 to 130 | 2.45 | 20.0 |
| BC03245 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.258 | 0.258 | 0.204 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 5.29 | 5.22 | 5.07 | 4.25 to 5.75 | 95.8 | 70.0 to 130 | 1.33 | 20.0 |
| BC03245 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 5.57 | 5.54 | 5.16 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.540 | 20.0 |
| BC03247 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.0039 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 97.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.154 | 0.157 | 0.0999 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 1.93 | 20.0 |
| BC03248 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03247 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 10.8 | 10.8 | 9.99 | 8.50 to 11.5 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 10.3 | 10.3 | 10.3 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0991 | 0.100 | 0.0976 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.904 | 20.0 |
| BC03248 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.106 | 0.108 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03245 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 9.17 | 9.20 | 1.00 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.327 | 20.0 |
| BC03245 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 9.34 | 9.33 | 1.02 | 0.850 to 1.15 | 108 | 70.0 to 130 | 0.107 | 20.0 |
| BC03245 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 186 | 190 | 4.98 | 4.25 to 5.75 | -100 | 70.0 to 130 | 2.13 | 20.0 |
| BC03245 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 185 | 179 | 5.12 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC03247 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.0973 | 0.100 | 0.103 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.74 | 20.0 |
| BC03248 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC03246 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.3 | 10.4 | 26.0 | | 103 | 80.0 to 120 | 0.966 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 11:18

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: BC03240

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|------|---------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03245 | Chloride | mg/L | -0.0522 | 1.00 | 10.0 | 18.5 | 8.33 | 10.2 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC03242 | Fluoride | mg/L | -0.032 | 0.125 | 2.50 | 2.64 | 0.104 | 2.60 | 2.25 to 2.75 | 101 | 80.0 to 120 | 3.77 | 20.0 |
| BC03245 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.75 | -0.022 | 1.91 | 1.80 to 2.20 | 87.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC03249 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 364 | 50.0 | 40.0 to 60.0 | | | 2.79 | 10.0 |
| BC03245 | Sulfate | mg/L | -0.0815 | 2.0 | 20.0 | 23.3 | 3.65 | 20.4 | 18.0 to 22.0 | 96.6 | 80.0 to 120 | 8.90 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S DUP

Location Code: WMWGORAP
Collected: 2/14/22 11:18
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03241

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:29 | | 1.015 | 0.984 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 11:21 | | 20.3 | 54.8 | mg/L | 1.4007 | 8.12 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 11:21 | | 20.3 | 5.87 | mg/L | 0.1624 | 0.812 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:29 | | 1.015 | 0.0627 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:29 | | 1.015 | 20.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:29 | | 1 | 10.4 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:29 | | 1.015 | 4.86 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 09:29 | | 1.015 | 11.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:34 | | 1.015 | 0.988 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 10:27 | | 20.3 | 54.4 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 10:27 | | 20.3 | 5.06 | mg/L | 0.1624 | 0.812 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:34 | | 1.015 | 0.0650 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:34 | | 1.015 | 20.1 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:34 | | 1 | 10.2 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:34 | | 1.015 | 4.76 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 08:34 | | 1.015 | 11.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | 0.000694 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | 0.0201 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | 0.0108 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | 0.0960 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | 0.000238 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | 0.000708 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/22/22 12:00 | | 10.15 | 2.76 | mg/L | 0.000680 | 0.00203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | 0.0406 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | 3.83 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S DUP

Location Code: WMWGORAP
Collected: 2/14/22 11:18
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03241

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | 0.000883 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | 0.000610 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | 0.00641 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | 0.0861 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | 0.000602 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/18/22 15:53 | | 10.15 | 2.54 | mg/L | 0.000680 | 0.00203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | 0.0433 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | 3.89 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | 0.00138 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 17:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 18:50 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:07 | 2/21/22 13:07 | | 1 | 0.274 | mg/L as N | 0.20 | 0.3 | J |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 113 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 317 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 112 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 0.65 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 00:44 | 2/19/22 00:44 | | 1 | 1.29 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S DUP

Location Code: WMWGORAP

Collected: 2/14/22 11:18

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03241

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:54 | 2/16/22 09:54 | | 2 | 20.5 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:25 | 2/16/22 11:25 | | 1 | 0.172 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:37 | 2/22/22 11:37 | | 8 | 120 | mg/L | 4.00 | 8 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/14/22 11:14 | 2/14/22 11:14 | | | 480.16 | uS/cm | | | FA |
| pH | 2/14/22 11:14 | 2/14/22 11:14 | | | 6.99 | SU | | | FA |
| Temperature | 2/14/22 11:14 | 2/14/22 11:14 | | | 16.98 | C | | | FA |
| Turbidity | 2/14/22 11:14 | 2/14/22 11:14 | | | 4.99 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 11:18

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-6S DUP

Laboratory ID Number: BC03241

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | Spike | | | | Limit | Limit | Rec | Prec | | |
| BC03247 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.0999 | 0.0998 | 0.0990 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.100 | 20.0 | |
| BC03248 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03247 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0930 | 0.0937 | 0.0917 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.750 | 20.0 | |
| BC03248 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0957 | 0.0967 | 0.0973 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.04 | 20.0 | |
| BC03247 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0999 | 0.102 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 2.08 | 20.0 | |
| BC03248 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.102 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03247 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.295 | 0.295 | 0.0940 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03248 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03247 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.0962 | 0.107 | 0.0981 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 10.6 | 20.0 | |
| BC03248 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 | |
| BC03245 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 1.07 | 1.08 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.930 | 20.0 | |
| BC03245 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.08 | 1.07 | 0.988 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.930 | 20.0 | |
| BC03247 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0925 | 0.0926 | 0.0943 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 0.108 | 20.0 | |
| BC03248 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03245 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 6.26 | 6.22 | 4.91 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.641 | 20.0 | |
| BC03245 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 6.53 | 6.45 | 4.87 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 1.23 | 20.0 | |
| BC03247 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0996 | 0.0980 | 0.102 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.62 | 20.0 | |
| BC03248 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.104 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 | |
| BC03247 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 | |
| BC03248 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.108 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 | |
| BC03245 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.279 | 0.272 | 0.200 | 0.170 to 0.230 | 98.3 | 70.0 to 130 | 2.54 | 20.0 | |
| BC03245 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.315 | 0.313 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.637 | 20.0 | |
| BC03247 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.0974 | 0.102 | 0.101 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 4.61 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/14/22 11:18
Customer ID:
Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-6S DUP

Laboratory ID Number: BC03241

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03248 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.248 | 0.242 | 0.194 | 0.170 to 0.230 | 97.0 | 70.0 to 130 | 2.45 | 20.0 |
| BC03245 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.258 | 0.258 | 0.204 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 5.29 | 5.22 | 5.07 | 4.25 to 5.75 | 95.8 | 70.0 to 130 | 1.33 | 20.0 |
| BC03245 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 5.57 | 5.54 | 5.16 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.540 | 20.0 |
| BC03247 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.0039 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 97.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.154 | 0.157 | 0.0999 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 1.93 | 20.0 |
| BC03248 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03247 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 10.8 | 10.8 | 9.99 | 8.50 to 11.5 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 10.3 | 10.3 | 10.3 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0991 | 0.100 | 0.0976 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.904 | 20.0 |
| BC03248 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.106 | 0.108 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03245 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 9.17 | 9.20 | 1.00 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.327 | 20.0 |
| BC03245 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 9.34 | 9.33 | 1.02 | 0.850 to 1.15 | 108 | 70.0 to 130 | 0.107 | 20.0 |
| BC03245 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 186 | 190 | 4.98 | 4.25 to 5.75 | -100 | 70.0 to 130 | 2.13 | 20.0 |
| BC03245 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 185 | 179 | 5.12 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC03247 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.0973 | 0.100 | 0.103 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.74 | 20.0 |
| BC03248 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC03246 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.3 | 10.4 | 26.0 | | 103 | 80.0 to 120 | 0.966 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 11:18

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-6S DUP

Laboratory ID Number: BC03241

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|------|---------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03245 | Chloride | mg/L | -0.0522 | 1.00 | 10.0 | 18.5 | 8.33 | 10.2 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC03242 | Fluoride | mg/L | -0.032 | 0.125 | 2.50 | 2.64 | 0.104 | 2.60 | 2.25 to 2.75 | 101 | 80.0 to 120 | 3.77 | 20.0 |
| BC03245 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.75 | -0.022 | 1.91 | 1.80 to 2.20 | 87.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC03249 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 364 | 50.0 | 40.0 to 60.0 | | | 2.79 | 10.0 |
| BC03245 | Sulfate | mg/L | -0.0815 | 2.0 | 20.0 | 23.3 | 3.65 | 20.4 | 18.0 to 22.0 | 96.6 | 80.0 to 120 | 8.90 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6D

Location Code: WMWGORAP
Collected: 2/14/22 12:34
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03242

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:31 | | 1.015 | 1.29 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 11:23 | | 20.3 | 55.7 | mg/L | 1.4007 | 8.12 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:31 | | 1.015 | 0.0603 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:31 | | 1.015 | 0.302 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:31 | | 1.015 | 15.2 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:31 | | 1 | 14.6 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:31 | | 1.015 | 6.82 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 09:31 | | 1.015 | 26.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:36 | | 1.015 | 1.32 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 10:29 | | 20.3 | 56.7 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 08:36 | | 1.015 | 0.0181 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:36 | | 1.015 | 0.286 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:36 | | 1.015 | 15.0 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:36 | | 1 | 15.0 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:36 | | 1.015 | 7.03 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 08:36 | | 1.015 | 26.3 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | 0.00587 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | 0.120 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | 0.599 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | 0.000243 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | 0.192 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | 0.0115 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | 2.35 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6D

Location Code: WMWGORAP
Collected: 2/14/22 12:34
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03242

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | 0.111 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | 0.509 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | 0.186 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | 0.00256 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | 2.29 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | 0.000612 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 17:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 18:54 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:09 | 2/21/22 13:09 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 211 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 297 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 209 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 2.06 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 01:04 | 2/19/22 01:04 | | 1 | 1.31 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6D

Location Code: WMWGORAP

Collected: 2/14/22 12:34

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03242

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:45 | 2/16/22 09:45 | | 1 | 11.7 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:27 | 2/16/22 11:27 | | 1 | 0.108 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:38 | 2/22/22 11:38 | | 2 | 58.3 | mg/L | 1.00 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/14/22 12:30 | 2/14/22 12:30 | | | 460.90 | uS/cm | | | FA |
| pH | 2/14/22 12:30 | 2/14/22 12:30 | | | 7.43 | SU | | | FA |
| Temperature | 2/14/22 12:30 | 2/14/22 12:30 | | | 17.83 | C | | | FA |
| Turbidity | 2/14/22 12:30 | 2/14/22 12:30 | | | 0.95 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 12:34

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: BC03242

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03247 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.0999 | 0.0998 | 0.0990 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.100 | 20.0 |
| BC03248 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0930 | 0.0937 | 0.0917 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.750 | 20.0 |
| BC03248 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0957 | 0.0967 | 0.0973 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.04 | 20.0 |
| BC03247 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0999 | 0.102 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 2.08 | 20.0 |
| BC03248 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.102 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.295 | 0.295 | 0.0940 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.0962 | 0.107 | 0.0981 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 10.6 | 20.0 |
| BC03248 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC03245 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 1.07 | 1.08 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.08 | 1.07 | 0.988 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.930 | 20.0 |
| BC03247 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0925 | 0.0926 | 0.0943 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 0.108 | 20.0 |
| BC03248 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 6.26 | 6.22 | 4.91 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.641 | 20.0 |
| BC03245 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 6.53 | 6.45 | 4.87 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 1.23 | 20.0 |
| BC03247 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0996 | 0.0980 | 0.102 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.62 | 20.0 |
| BC03248 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.104 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC03247 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03248 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.108 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC03245 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.279 | 0.272 | 0.200 | 0.170 to 0.230 | 98.3 | 70.0 to 130 | 2.54 | 20.0 |
| BC03245 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.315 | 0.313 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.637 | 20.0 |
| BC03247 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.0974 | 0.102 | 0.101 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 12:34

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: BC03242

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03248 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.248 | 0.242 | 0.194 | 0.170 to 0.230 | 97.0 | 70.0 to 130 | 2.45 | 20.0 |
| BC03245 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.258 | 0.258 | 0.204 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 5.29 | 5.22 | 5.07 | 4.25 to 5.75 | 95.8 | 70.0 to 130 | 1.33 | 20.0 |
| BC03245 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 5.57 | 5.54 | 5.16 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.540 | 20.0 |
| BC03247 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.0039 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 97.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.154 | 0.157 | 0.0999 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 1.93 | 20.0 |
| BC03248 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03247 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 10.8 | 10.8 | 9.99 | 8.50 to 11.5 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 10.3 | 10.3 | 10.3 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0991 | 0.100 | 0.0976 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.904 | 20.0 |
| BC03248 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.106 | 0.108 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03245 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 9.17 | 9.20 | 1.00 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.327 | 20.0 |
| BC03245 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 9.34 | 9.33 | 1.02 | 0.850 to 1.15 | 108 | 70.0 to 130 | 0.107 | 20.0 |
| BC03245 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 186 | 190 | 4.98 | 4.25 to 5.75 | -100 | 70.0 to 130 | 2.13 | 20.0 |
| BC03245 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 185 | 179 | 5.12 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC03247 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.0973 | 0.100 | 0.103 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.74 | 20.0 |
| BC03248 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC03246 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.3 | 10.4 | 26.0 | | 103 | 80.0 to 120 | 0.966 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 12:34

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: BC03242

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|------|---------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03245 | Chloride | mg/L | -0.0522 | 1.00 | 10.0 | 18.5 | 8.33 | 10.2 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC03242 | Fluoride | mg/L | -0.032 | 0.125 | 2.50 | 2.64 | 0.104 | 2.60 | 2.25 to 2.75 | 101 | 80.0 to 120 | 3.77 | 20.0 |
| BC03245 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.75 | -0.022 | 1.91 | 1.80 to 2.20 | 87.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC03249 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 364 | 50.0 | 40.0 to 60.0 | | | 2.79 | 10.0 |
| BC03245 | Sulfate | mg/L | -0.0815 | 2.0 | 20.0 | 23.3 | 3.65 | 20.4 | 18.0 to 22.0 | 96.6 | 80.0 to 120 | 8.90 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23H

Location Code: WMWGORAP
Collected: 2/14/22 13:47
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03243

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:33 | | 1.015 | 0.0350 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 11:25 | | 20.3 | 74.4 | mg/L | 1.4007 | 8.12 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 11:25 | | 20.3 | 49.1 | mg/L | 0.1624 | 0.812 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:33 | | 1.015 | 0.0306 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:33 | | 1.015 | 34.4 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:33 | | 1 | 27.8 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:33 | | 1.015 | 13.0 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 09:33 | | 1.015 | 22.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:38 | | 1.015 | 0.0347 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 10:31 | | 20.3 | 74.6 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 10:31 | | 20.3 | 48.1 | mg/L | 0.1624 | 0.812 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:38 | | 1.015 | 0.0302 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:38 | | 1.015 | 34.4 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:38 | | 1 | 27.4 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:38 | | 1.015 | 12.8 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 08:38 | | 1.015 | 21.6 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | 0.0610 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | 0.0166 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | 0.000227 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | 0.000521 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/22/22 12:04 | | 10.15 | 1.50 | mg/L | 0.000680 | 0.00203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | 0.000970 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | 2.51 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23H

Location Code: WMWGORAP
Collected: 2/14/22 13:47
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03243

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 13:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | 0.0562 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | 0.0154 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | 0.000494 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/18/22 15:57 | | 10.15 | 1.52 | mg/L | 0.000680 | 0.00203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | 0.000831 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | 2.32 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 18:58 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:10 | 2/21/22 13:10 | | 1 | 0.222 | mg/L as N | 0.20 | 0.3 | J |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 83.3 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 592 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 83.2 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 0.06 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 01:22 | 2/19/22 01:22 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23H

Location Code: WMWGORAP

Collected: 2/14/22 13:47

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03243

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:46 | 2/16/22 09:46 | | 1 | 12.8 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:38 | 2/16/22 11:38 | | 1 | 0.140 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:39 | 2/22/22 11:39 | | 20 | 356 | mg/L | 10.00 | 20 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/14/22 13:44 | 2/14/22 13:44 | | | 770.30 | uS/cm | | | FA |
| pH | 2/14/22 13:44 | 2/14/22 13:44 | | | 5.80 | SU | | | FA |
| Temperature | 2/14/22 13:44 | 2/14/22 13:44 | | | 17.86 | C | | | FA |
| Turbidity | 2/14/22 13:44 | 2/14/22 13:44 | | | 1.88 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 13:47

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: BC03243

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03247 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.0999 | 0.0998 | 0.0990 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.100 | 20.0 |
| BC03248 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0930 | 0.0937 | 0.0917 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.750 | 20.0 |
| BC03248 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0957 | 0.0967 | 0.0973 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.04 | 20.0 |
| BC03247 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0999 | 0.102 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 2.08 | 20.0 |
| BC03248 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.102 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.295 | 0.295 | 0.0940 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.0962 | 0.107 | 0.0981 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 10.6 | 20.0 |
| BC03248 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC03245 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 1.07 | 1.08 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.08 | 1.07 | 0.988 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.930 | 20.0 |
| BC03247 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0925 | 0.0926 | 0.0943 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 0.108 | 20.0 |
| BC03248 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 6.26 | 6.22 | 4.91 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.641 | 20.0 |
| BC03245 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 6.53 | 6.45 | 4.87 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 1.23 | 20.0 |
| BC03247 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0996 | 0.0980 | 0.102 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.62 | 20.0 |
| BC03248 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.104 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC03247 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03248 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.108 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC03245 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.279 | 0.272 | 0.200 | 0.170 to 0.230 | 98.3 | 70.0 to 130 | 2.54 | 20.0 |
| BC03245 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.315 | 0.313 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.637 | 20.0 |
| BC03247 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.0974 | 0.102 | 0.101 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 13:47

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: BC03243

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03248 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.248 | 0.242 | 0.194 | 0.170 to 0.230 | 97.0 | 70.0 to 130 | 2.45 | 20.0 |
| BC03245 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.258 | 0.258 | 0.204 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 5.29 | 5.22 | 5.07 | 4.25 to 5.75 | 95.8 | 70.0 to 130 | 1.33 | 20.0 |
| BC03245 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 5.57 | 5.54 | 5.16 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.540 | 20.0 |
| BC03247 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.0039 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 97.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.154 | 0.157 | 0.0999 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 1.93 | 20.0 |
| BC03248 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03247 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 10.8 | 10.8 | 9.99 | 8.50 to 11.5 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 10.3 | 10.3 | 10.3 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0991 | 0.100 | 0.0976 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.904 | 20.0 |
| BC03248 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.106 | 0.108 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03245 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 9.17 | 9.20 | 1.00 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.327 | 20.0 |
| BC03245 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 9.34 | 9.33 | 1.02 | 0.850 to 1.15 | 108 | 70.0 to 130 | 0.107 | 20.0 |
| BC03245 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 186 | 190 | 4.98 | 4.25 to 5.75 | -100 | 70.0 to 130 | 2.13 | 20.0 |
| BC03245 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 185 | 179 | 5.12 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC03247 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.0973 | 0.100 | 0.103 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.74 | 20.0 |
| BC03248 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC03246 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.3 | 10.4 | 26.0 | | 103 | 80.0 to 120 | 0.966 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 13:47

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: BC03243

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03245 | Chloride | mg/L | -0.0522 | 1.00 | 10.0 | 18.5 | 8.33 | 10.2 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC03249 | Fluoride | mg/L | -0.0432 | 0.125 | 2.50 | 2.76 | 0.155 | 2.60 | 2.25 to 2.75 | 104 | 80.0 to 120 | 4.62 | 20.0 |
| BC03245 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.75 | -0.022 | 1.91 | 1.80 to 2.20 | 87.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC03249 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 364 | 50.0 | 40.0 to 60.0 | | | 2.79 | 10.0 |
| BC03245 | Sulfate | mg/L | -0.0815 | 2.0 | 20.0 | 23.3 | 3.65 | 20.4 | 18.0 to 22.0 | 96.6 | 80.0 to 120 | 8.90 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23H DUP

Location Code: WMWGORAP
Collected: 2/14/22 13:47
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03244

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:35 | | 1.015 | 0.0366 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 11:27 | | 20.3 | 75.1 | mg/L | 1.4007 | 8.12 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 11:27 | | 20.3 | 49.0 | mg/L | 0.1624 | 0.812 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:35 | | 1.015 | 0.0308 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:35 | | 1.015 | 34.9 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:35 | | 1 | 27.8 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:35 | | 1.015 | 13.0 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 09:35 | | 1.015 | 22.4 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:40 | | 1.015 | 0.0343 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 10:32 | | 20.3 | 75.3 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 10:32 | | 20.3 | 49.0 | mg/L | 0.1624 | 0.812 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:40 | | 1.015 | 0.0303 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:40 | | 1.015 | 34.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:40 | | 1 | 27.4 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:40 | | 1.015 | 12.8 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 08:40 | | 1.015 | 21.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | 0.0611 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | 0.0177 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | 0.000203 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | 0.000548 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/22/22 12:07 | | 10.15 | 1.44 | mg/L | 0.000680 | 0.00203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | 0.000974 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | 2.58 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23H DUP

Location Code: WMWGORAP
Collected: 2/14/22 13:47
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03244

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 14:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | 0.0567 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | 0.0153 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | 0.000522 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/18/22 16:00 | | 10.15 | 1.55 | mg/L | 0.000680 | 0.00203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | 0.000916 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | 2.36 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 17:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:02 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:12 | 2/21/22 13:12 | | 1 | 0.218 | mg/L as N | 0.20 | 0.3 | J |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 86.7 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 612 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 86.7 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 0.02 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 01:41 | 2/19/22 01:41 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23H DUP

Location Code: WMWGORAP

Collected: 2/14/22 13:47

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03244

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:47 | 2/16/22 09:47 | | 1 | 13.0 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:40 | 2/16/22 11:40 | | 1 | 0.127 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:40 | 2/22/22 11:40 | | 20 | 353 | mg/L | 10.00 | 20 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/14/22 13:44 | 2/14/22 13:44 | | | 770.30 | uS/cm | | | FA |
| pH | 2/14/22 13:44 | 2/14/22 13:44 | | | 5.80 | SU | | | FA |
| Temperature | 2/14/22 13:44 | 2/14/22 13:44 | | | 17.86 | C | | | FA |
| Turbidity | 2/14/22 13:44 | 2/14/22 13:44 | | | 1.88 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/14/22 13:47
Customer ID:
Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-23H DUP

Laboratory ID Number: BC03244

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03247 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.0999 | 0.0998 | 0.0990 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.100 | 20.0 |
| BC03248 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0930 | 0.0937 | 0.0917 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.750 | 20.0 |
| BC03248 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0957 | 0.0967 | 0.0973 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.04 | 20.0 |
| BC03247 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0999 | 0.102 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 2.08 | 20.0 |
| BC03248 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.102 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.295 | 0.295 | 0.0940 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.0962 | 0.107 | 0.0981 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 10.6 | 20.0 |
| BC03248 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC03245 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 1.07 | 1.08 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.08 | 1.07 | 0.988 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.930 | 20.0 |
| BC03247 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0925 | 0.0926 | 0.0943 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 0.108 | 20.0 |
| BC03248 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 6.26 | 6.22 | 4.91 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.641 | 20.0 |
| BC03245 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 6.53 | 6.45 | 4.87 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 1.23 | 20.0 |
| BC03247 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0996 | 0.0980 | 0.102 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.62 | 20.0 |
| BC03248 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.104 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC03247 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03248 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.108 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC03245 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.279 | 0.272 | 0.200 | 0.170 to 0.230 | 98.3 | 70.0 to 130 | 2.54 | 20.0 |
| BC03245 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.315 | 0.313 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.637 | 20.0 |
| BC03247 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.0974 | 0.102 | 0.101 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 13:47

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-23H DUP

Laboratory ID Number: BC03244

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03248 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.248 | 0.242 | 0.194 | 0.170 to 0.230 | 97.0 | 70.0 to 130 | 2.45 | 20.0 |
| BC03245 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.258 | 0.258 | 0.204 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 5.29 | 5.22 | 5.07 | 4.25 to 5.75 | 95.8 | 70.0 to 130 | 1.33 | 20.0 |
| BC03245 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 5.57 | 5.54 | 5.16 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.540 | 20.0 |
| BC03247 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.0039 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 97.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.154 | 0.157 | 0.0999 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 1.93 | 20.0 |
| BC03248 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03247 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 10.8 | 10.8 | 9.99 | 8.50 to 11.5 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 10.3 | 10.3 | 10.3 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0991 | 0.100 | 0.0976 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.904 | 20.0 |
| BC03248 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.106 | 0.108 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03245 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 9.17 | 9.20 | 1.00 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.327 | 20.0 |
| BC03245 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 9.34 | 9.33 | 1.02 | 0.850 to 1.15 | 108 | 70.0 to 130 | 0.107 | 20.0 |
| BC03245 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 186 | 190 | 4.98 | 4.25 to 5.75 | -100 | 70.0 to 130 | 2.13 | 20.0 |
| BC03245 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 185 | 179 | 5.12 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC03247 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.0973 | 0.100 | 0.103 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.74 | 20.0 |
| BC03248 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC03246 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.3 | 10.4 | 26.0 | | 103 | 80.0 to 120 | 0.966 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 13:47

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-23H DUP

Laboratory ID Number: BC03244

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03245 | Chloride | mg/L | -0.0522 | 1.00 | 10.0 | 18.5 | 8.33 | 10.2 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC03249 | Fluoride | mg/L | -0.0432 | 0.125 | 2.50 | 2.76 | 0.155 | 2.60 | 2.25 to 2.75 | 104 | 80.0 to 120 | 4.62 | 20.0 |
| BC03245 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.75 | -0.022 | 1.91 | 1.80 to 2.20 | 87.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC03249 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 364 | 50.0 | 40.0 to 60.0 | | | 2.79 | 10.0 |
| BC03245 | Sulfate | mg/L | -0.0815 | 2.0 | 20.0 | 23.3 | 3.65 | 20.4 | 18.0 to 22.0 | 96.6 | 80.0 to 120 | 8.90 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-28H

Location Code: WMWGORAP
Collected: 2/14/22 12:42
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03245

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:37 | | 1.015 | 0.0706 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:37 | | 1.015 | 1.66 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:37 | | 1.015 | 0.113 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:37 | | 1.015 | 0.0551 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:37 | | 1.015 | 0.521 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:37 | | 1 | 17.7 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:37 | | 1.015 | 8.26 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:29 | | 20.3 | 182 | mg/L | 0.609 | 8.12 | RA | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:41 | | 1.015 | 0.0698 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 08:41 | | 1.015 | 1.59 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 08:41 | | 1.015 | 0.0824 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:41 | | 1.015 | 0.0541 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:41 | | 1.015 | 0.500 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:41 | | 1 | 17.4 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:41 | | 1.015 | 8.12 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:34 | | 20.3 | 191 | mg/L | 0.609 | 8.12 | RA | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | 0.0303 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | 0.000583 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | 0.0483 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | 0.000248 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | 0.00794 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | 0.00481 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | 1.07 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 Nitrate/Nitrite MS recovery was outside the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-28H

Location Code: WMWGORAP
Collected: 2/14/22 12:42
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03245

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 14:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | 0.00712 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | 0.000366 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | 0.0515 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | 0.00627 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | 0.00375 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | 0.927 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 17:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:06 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:14 | 2/21/22 13:14 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 417 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 433 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 405 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 11.5 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 01:57 | 2/19/22 01:57 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Nitrate/Nitrite MS recovery was outside the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-28H

Location Code: WMWGORAP
Collected: 2/14/22 12:42
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03245

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:48 | 2/16/22 09:48 | | 1 | 8.33 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:41 | 2/16/22 11:41 | | 1 | 0.121 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:29 | 2/22/22 11:29 | | 1 | 3.99 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 2/14/22 12:37 | 2/14/22 12:37 | | | 646.75 | uS/cm | | | FA |
| pH | 2/14/22 12:37 | 2/14/22 12:37 | | | 8.37 | SU | | | FA |
| Temperature | 2/14/22 12:37 | 2/14/22 12:37 | | | 17.17 | C | | | FA |
| Turbidity | 2/14/22 12:37 | 2/14/22 12:37 | | | 0.64 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Nitrate/Nitrite MS recovery was outside the specification limit.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 12:42

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: BC03245

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | Standard Limit | Rec | | Prec Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|------------|------|
| | | | | Limit | Spike | | | | | Rec | Limit | | |
| BC03247 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.0999 | 0.0998 | 0.0990 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.100 | 20.0 |
| BC03248 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0930 | 0.0937 | 0.0917 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.750 | 20.0 |
| BC03248 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0957 | 0.0967 | 0.0973 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.04 | 20.0 |
| BC03247 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0999 | 0.102 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 2.08 | 20.0 |
| BC03248 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.102 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.295 | 0.295 | 0.0940 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.0962 | 0.107 | 0.0981 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 10.6 | 20.0 |
| BC03248 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC03245 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 1.07 | 1.08 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.930 | 20.0 |
| BC03245 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.08 | 1.07 | 0.988 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.930 | 20.0 |
| BC03247 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0925 | 0.0926 | 0.0943 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 0.108 | 20.0 |
| BC03248 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 6.26 | 6.22 | 4.91 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.641 | 20.0 |
| BC03245 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 6.53 | 6.45 | 4.87 | 4.25 to 5.75 | 97.4 | 70.0 to 130 | 1.23 | 20.0 |
| BC03247 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0996 | 0.0980 | 0.102 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.62 | 20.0 |
| BC03248 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.104 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC03247 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03248 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.108 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC03245 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.279 | 0.272 | 0.200 | 0.170 to 0.230 | 98.3 | 70.0 to 130 | 2.54 | 20.0 |
| BC03245 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.315 | 0.313 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.637 | 20.0 |
| BC03247 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.0974 | 0.102 | 0.101 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Nitrate/Nitrite MS recovery was outside the specification limit.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 12:42

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: BC03245

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03248 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.248 | 0.242 | 0.194 | 0.170 to 0.230 | 97.0 | 70.0 to 130 | 2.45 | 20.0 |
| BC03245 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.258 | 0.258 | 0.204 | 0.170 to 0.230 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 5.29 | 5.22 | 5.07 | 4.25 to 5.75 | 95.8 | 70.0 to 130 | 1.33 | 20.0 |
| BC03245 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 5.57 | 5.54 | 5.16 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.540 | 20.0 |
| BC03247 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03245 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.0039 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 97.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.154 | 0.157 | 0.0999 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 1.93 | 20.0 |
| BC03248 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03247 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 10.8 | 10.8 | 9.99 | 8.50 to 11.5 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 10.3 | 10.3 | 10.3 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0991 | 0.100 | 0.0976 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.904 | 20.0 |
| BC03248 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.106 | 0.108 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03245 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 9.17 | 9.20 | 1.00 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.327 | 20.0 |
| BC03245 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 9.34 | 9.33 | 1.02 | 0.850 to 1.15 | 108 | 70.0 to 130 | 0.107 | 20.0 |
| BC03245 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 186 | 190 | 4.98 | 4.25 to 5.75 | -100 | 70.0 to 130 | 2.13 | 20.0 |
| BC03245 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 185 | 179 | 5.12 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC03247 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.0973 | 0.100 | 0.103 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.74 | 20.0 |
| BC03248 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC03246 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.3 | 10.4 | 26.0 | | 103 | 80.0 to 120 | 0.966 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Nitrate/Nitrite MS recovery was outside the specification limit.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 12:42

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: BC03245

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03245 | Chloride | mg/L | -0.0522 | 1.00 | 10.0 | 18.5 | 8.33 | 10.2 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC03249 | Fluoride | mg/L | -0.0432 | 0.125 | 2.50 | 2.76 | 0.155 | 2.60 | 2.25 to 2.75 | 104 | 80.0 to 120 | 4.62 | 20.0 |
| BC03245 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.75 | -0.022 | 1.91 | 1.80 to 2.20 | 87.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC03249 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 364 | 50.0 | 40.0 to 60.0 | | | 2.79 | 10.0 |
| BC03245 | Sulfate | mg/L | -0.0815 | 2.0 | 20.0 | 23.3 | 3.65 | 20.4 | 18.0 to 22.0 | 96.6 | 80.0 to 120 | 8.90 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Nitrate/Nitrite MS recovery was outside the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-28H DUP

Location Code: WMWGORAP
Collected: 2/14/22 12:42
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03246

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:46 | | 1.015 | 0.0700 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 11:38 | | 1.015 | 1.65 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:46 | | 1.015 | 0.109 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 11:38 | | 1.015 | 0.0544 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 11:38 | | 1.015 | 0.519 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:46 | | 1 | 17.4 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:46 | | 1.015 | 8.11 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:40 | | 20.3 | 176 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:51 | | 1.015 | 0.0698 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 08:51 | | 1.015 | 1.62 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 08:51 | | 1.015 | 0.0789 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:51 | | 1.015 | 0.0550 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:51 | | 1.015 | 0.509 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:51 | | 1 | 17.3 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:51 | | 1.015 | 8.07 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:48 | | 20.3 | 183 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | 0.0278 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | 0.00054 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | 0.0504 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | 0.000217 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | 0.00766 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | 0.00480 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | 1.04 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-28H DUP

Location Code: WMWGORAP

Collected: 2/14/22 12:42

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03246

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 14:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | 0.00713 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | 0.000432 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | 0.0502 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | 0.00615 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | 0.00369 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | 0.936 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 17:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:26 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:23 | 2/21/22 13:23 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 426 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 428 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 416 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 10.3 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 02:16 | 2/19/22 02:16 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-28H DUP

Location Code: WMWGORAP

Collected: 2/14/22 12:42

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03246

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 10:21 | 2/16/22 10:21 | | 1 | 8.32 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:42 | 2/16/22 11:42 | | 1 | 0.152 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:55 | 2/22/22 11:55 | | 1 | 3.39 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 2/14/22 12:37 | 2/14/22 12:37 | | | 646.75 | uS/cm | | | FA |
| pH | 2/14/22 12:37 | 2/14/22 12:37 | | | 8.37 | SU | | | FA |
| Temperature | 2/14/22 12:37 | 2/14/22 12:37 | | | 17.17 | C | | | FA |
| Turbidity | 2/14/22 12:37 | 2/14/22 12:37 | | | 0.64 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 12:42

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-28H DUP

Laboratory ID Number: BC03246

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03247 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.0999 | 0.0998 | 0.0990 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.100 | 20.0 |
| BC03248 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0930 | 0.0937 | 0.0917 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.750 | 20.0 |
| BC03248 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0957 | 0.0967 | 0.0973 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.04 | 20.0 |
| BC03247 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0999 | 0.102 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 2.08 | 20.0 |
| BC03248 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.102 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.295 | 0.295 | 0.0940 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.0962 | 0.107 | 0.0981 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 10.6 | 20.0 |
| BC03248 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC03530 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 2.50 | 2.49 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03528 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.05 | 1.06 | 0.988 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC03247 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0925 | 0.0926 | 0.0943 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 0.108 | 20.0 |
| BC03248 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03530 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 60.4 | 60.3 | 4.91 | 4.25 to 5.75 | 62.0 | 70.0 to 130 | 0.166 | 20.0 |
| BC03528 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 19.0 | 19.1 | 4.87 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 0.525 | 20.0 |
| BC03247 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0996 | 0.0980 | 0.102 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.62 | 20.0 |
| BC03248 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.104 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC03247 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03248 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.108 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC03530 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.208 | 0.212 | 0.200 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 1.90 | 20.0 |
| BC03528 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.223 | 0.226 | 0.198 | 0.170 to 0.230 | 95.3 | 70.0 to 130 | 1.34 | 20.0 |
| BC03247 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.0974 | 0.102 | 0.101 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/14/22 12:42
Customer ID:
Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-28H DUP

Laboratory ID Number: BC03246

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03248 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC03530 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.550 | 0.553 | 0.194 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.544 | 20.0 |
| BC03528 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.278 | 0.283 | 0.204 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.78 | 20.0 |
| BC03530 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 22.7 | 22.9 | 5.07 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 0.877 | 20.0 |
| BC03528 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 10.1 | 10.4 | 5.16 | 4.25 to 5.75 | 95.6 | 70.0 to 130 | 2.93 | 20.0 |
| BC03247 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03528 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.00387 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 96.8 | 70.0 to 130 | 0.772 | 20.0 |
| BC03247 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.154 | 0.157 | 0.0999 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 1.93 | 20.0 |
| BC03248 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03247 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 10.8 | 10.8 | 9.99 | 8.50 to 11.5 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 10.3 | 10.3 | 10.3 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0991 | 0.100 | 0.0976 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.904 | 20.0 |
| BC03248 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.106 | 0.108 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03530 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 8.42 | 8.41 | 1.00 | 0.850 to 1.15 | 98.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03528 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 8.11 | 8.12 | 1.02 | 0.850 to 1.15 | 92.0 | 70.0 to 130 | 0.123 | 20.0 |
| BC03530 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 23.8 | 24.1 | 4.98 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.25 | 20.0 |
| BC03528 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 216 | 223 | 5.12 | 4.25 to 5.75 | -120 | 70.0 to 130 | 3.19 | 20.0 |
| BC03247 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.0973 | 0.100 | 0.103 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.74 | 20.0 |
| BC03248 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC03246 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.3 | 10.4 | 26.0 | | 103 | 80.0 to 120 | 0.966 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 12:42

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-28H DUP

Laboratory ID Number: BC03246

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03249 | Chloride | mg/L | -0.0102 | 1.00 | 40.0 | 71.0 | 30.6 | 10.1 | 9.00 to 11.0 | 103 | 80.0 to 120 | 2.65 | 20.0 |
| BC03249 | Fluoride | mg/L | -0.0432 | 0.125 | 2.50 | 2.76 | 0.155 | 2.60 | 2.25 to 2.75 | 104 | 80.0 to 120 | 4.62 | 20.0 |
| BC03528 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.80 | -0.023 | 1.81 | 1.80 to 2.20 | 90.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03249 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 364 | 50.0 | 40.0 to 60.0 | | | 2.79 | 10.0 |
| BC03528 | Sulfate | mg/L | -0.0901 | 2.0 | 320 | 553 | 249 | 20.6 | 18.0 to 22.0 | 103 | 80.0 to 120 | 10.6 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-29H

Location Code: WMWGORAP
Collected: 2/14/22 14:30
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03247

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:48 | | 1.015 | 0.542 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:48 | | 1.015 | 13.9 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:48 | | 1.015 | 0.168 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:48 | | 1.015 | 0.0670 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:48 | | 1.015 | 5.10 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:48 | | 1 | 20.1 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:48 | | 1.015 | 9.37 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:42 | | 20.3 | 126 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:53 | | 1.015 | 0.542 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 08:53 | | 1.015 | 14.4 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 08:53 | | 1.015 | 0.154 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:53 | | 1.015 | 0.0675 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:53 | | 1.015 | 5.20 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:53 | | 1 | 20.1 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:53 | | 1.015 | 9.41 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:50 | | 20.3 | 131 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | 0.0111 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | 0.00313 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | 0.231 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | 0.000286 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | 0.0111 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | 0.0622 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | 1.38 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-29H

Location Code: WMWGORAP

Collected: 2/14/22 14:30

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03247

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | 0.00411 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | 0.00310 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | 0.199 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | 0.0104 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | 0.0595 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | 1.33 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/16/22 17:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:30 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:25 | 2/21/22 13:25 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 289 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 392 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 286 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 3.02 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 03:04 | 2/19/22 03:04 | | 1 | 1.16 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-29H

Location Code: WMWGORAP

Collected: 2/14/22 14:30

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03247

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 10:22 | 2/16/22 10:22 | | 1 | 14.2 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:43 | 2/16/22 11:43 | | 1 | 0.332 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:08 | 2/22/22 12:08 | | 2 | 49.7 | mg/L | 1.00 | 2 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 2/14/22 14:28 | 2/14/22 14:28 | | | 595.98 | uS/cm | | | FA |
| pH | 2/14/22 14:28 | 2/14/22 14:28 | | | 7.77 | SU | | | FA |
| Temperature | 2/14/22 14:28 | 2/14/22 14:28 | | | 16.75 | C | | | FA |
| Turbidity | 2/14/22 14:28 | 2/14/22 14:28 | | | 0.77 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 14:30

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: BC03247

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03247 | Aluminum, Dissolved | mg/L | 0.0000565 | 0.010 | 0.100 | 0.0999 | 0.0998 | 0.0990 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.100 | 20.0 |
| BC03248 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Antimony, Dissolved | mg/L | 0.000176 | 0.00100 | 0.100 | 0.0930 | 0.0937 | 0.0917 | 0.0850 to 0.115 | 93.0 | 70.0 to 130 | 0.750 | 20.0 |
| BC03248 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0957 | 0.0967 | 0.0973 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.04 | 20.0 |
| BC03247 | Arsenic, Dissolved | mg/L | 0.0000108 | 0.000176 | 0.100 | 0.0999 | 0.102 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 2.08 | 20.0 |
| BC03248 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.102 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.295 | 0.295 | 0.0940 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03247 | Beryllium, Dissolved | mg/L | 0.000136 | 0.000880 | 0.100 | 0.0962 | 0.107 | 0.0981 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 10.6 | 20.0 |
| BC03248 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC03530 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 2.50 | 2.49 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03528 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.05 | 1.06 | 0.988 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC03247 | Cadmium, Dissolved | mg/L | 0.0000045 | 0.000147 | 0.100 | 0.0925 | 0.0926 | 0.0943 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 0.108 | 20.0 |
| BC03248 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03530 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 60.4 | 60.3 | 4.91 | 4.25 to 5.75 | 62.0 | 70.0 to 130 | 0.166 | 20.0 |
| BC03528 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 19.0 | 19.1 | 4.87 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 0.525 | 20.0 |
| BC03247 | Chromium, Dissolved | mg/L | -0.0000309 | 0.000440 | 0.100 | 0.0996 | 0.0980 | 0.102 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 1.62 | 20.0 |
| BC03248 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.104 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC03247 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03248 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.108 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC03530 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.208 | 0.212 | 0.200 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 1.90 | 20.0 |
| BC03528 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.223 | 0.226 | 0.198 | 0.170 to 0.230 | 95.3 | 70.0 to 130 | 1.34 | 20.0 |
| BC03247 | Lead, Dissolved | mg/L | 0.0000107 | 0.000147 | 0.100 | 0.0974 | 0.102 | 0.101 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 4.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/14/22 14:30
Customer ID:
Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: BC03247

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03248 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC03530 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.550 | 0.553 | 0.194 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.544 | 20.0 |
| BC03528 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.278 | 0.283 | 0.204 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.78 | 20.0 |
| BC03530 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 22.7 | 22.9 | 5.07 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 0.877 | 20.0 |
| BC03528 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 10.1 | 10.4 | 5.16 | 4.25 to 5.75 | 95.6 | 70.0 to 130 | 2.93 | 20.0 |
| BC03247 | Manganese, Dissolved | mg/L | -0.000126 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03528 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.00387 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 96.8 | 70.0 to 130 | 0.772 | 20.0 |
| BC03247 | Molybdenum, Dissolved | mg/L | 0.0000073 | 0.0002 | 0.100 | 0.154 | 0.157 | 0.0999 | 0.0850 to 0.115 | 94.5 | 70.0 to 130 | 1.93 | 20.0 |
| BC03248 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03247 | Potassium, Dissolved | mg/L | -0.0162 | 0.367 | 10.0 | 10.8 | 10.8 | 9.99 | 8.50 to 11.5 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 10.3 | 10.3 | 10.3 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03247 | Selenium, Dissolved | mg/L | -0.0000165 | 0.00100 | 0.100 | 0.0991 | 0.100 | 0.0976 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.904 | 20.0 |
| BC03248 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.106 | 0.108 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03530 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 8.42 | 8.41 | 1.00 | 0.850 to 1.15 | 98.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03528 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 8.11 | 8.12 | 1.02 | 0.850 to 1.15 | 92.0 | 70.0 to 130 | 0.123 | 20.0 |
| BC03530 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 23.8 | 24.1 | 4.98 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.25 | 20.0 |
| BC03528 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 216 | 223 | 5.12 | 4.25 to 5.75 | -120 | 70.0 to 130 | 3.19 | 20.0 |
| BC03247 | Thallium, Dissolved | mg/L | -0.0000004 | 0.000147 | 0.100 | 0.0973 | 0.100 | 0.103 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.74 | 20.0 |
| BC03248 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC03246 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.3 | 10.4 | 26.0 | | 103 | 80.0 to 120 | 0.966 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 14:30

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: BC03247

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03249 | Chloride | mg/L | -0.0102 | 1.00 | 40.0 | 71.0 | 30.6 | 10.1 | 9.00 to 11.0 | 103 | 80.0 to 120 | 2.65 | 20.0 |
| BC03249 | Fluoride | mg/L | -0.0432 | 0.125 | 2.50 | 2.76 | 0.155 | 2.60 | 2.25 to 2.75 | 104 | 80.0 to 120 | 4.62 | 20.0 |
| BC03528 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.80 | -0.023 | 1.81 | 1.80 to 2.20 | 90.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03249 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 364 | 50.0 | 40.0 to 60.0 | | | 2.79 | 10.0 |
| BC03528 | Sulfate | mg/L | -0.0901 | 2.0 | 320 | 553 | 249 | 20.6 | 18.0 to 22.0 | 103 | 80.0 to 120 | 10.6 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-3

Location Code: WMWGORAPFB
Collected: 2/14/22 15:10
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03248

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:50 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:50 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:50 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:50 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:50 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:50 | | 1 | Not Detected | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:50 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 09:50 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | 0.000208 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U | |
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 14:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:33 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U | |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:27 | 2/21/22 13:27 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | Not Detected | mg/L | | 25 | U | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-3

Location Code: WMWGORAPFB

Collected: 2/14/22 15:10

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03248

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 03:50 | 2/19/22 03:50 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 10:23 | 2/16/22 10:23 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:44 | 2/16/22 11:44 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:02 | 2/22/22 12:02 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/14/22 15:10

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond Field Blank-3

Laboratory ID Number: BC03248

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03248 | Aluminum, Total | mg/L | 0.000788 | 0.010 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Antimony, Total | mg/L | 0.000222 | 0.00100 | 0.100 | 0.0957 | 0.0967 | 0.0973 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.04 | 20.0 |
| BC03248 | Arsenic, Total | mg/L | 0.000012 | 0.000176 | 0.100 | 0.104 | 0.102 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03248 | Barium, Total | mg/L | -0.0000261 | 0.000200 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03248 | Beryllium, Total | mg/L | 0.000124 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC03528 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.05 | 1.06 | 0.988 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC03248 | Cadmium, Total | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03528 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 19.0 | 19.1 | 4.87 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 0.525 | 20.0 |
| BC03248 | Chromium, Total | mg/L | 0.0000153 | 0.000440 | 0.100 | 0.103 | 0.104 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC03248 | Cobalt, Total | mg/L | 0.000006 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.108 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC03528 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.223 | 0.226 | 0.198 | 0.170 to 0.230 | 95.3 | 70.0 to 130 | 1.34 | 20.0 |
| BC03248 | Lead, Total | mg/L | 0.0000018 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC03528 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.278 | 0.283 | 0.204 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.78 | 20.0 |
| BC03528 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 10.1 | 10.4 | 5.16 | 4.25 to 5.75 | 95.6 | 70.0 to 130 | 2.93 | 20.0 |
| BC03248 | Manganese, Total | mg/L | 0.0000678 | 0.0002 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC03528 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.00387 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 96.8 | 70.0 to 130 | 0.772 | 20.0 |
| BC03248 | Molybdenum, Total | mg/L | 0.0000199 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03248 | Potassium, Total | mg/L | 0.00661 | 0.367 | 10.0 | 10.3 | 10.3 | 10.3 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03248 | Selenium, Total | mg/L | 0.0000249 | 0.00100 | 0.100 | 0.106 | 0.108 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03528 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 8.11 | 8.12 | 1.02 | 0.850 to 1.15 | 92.0 | 70.0 to 130 | 0.123 | 20.0 |
| BC03528 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 216 | 223 | 5.12 | 4.25 to 5.75 | -120 | 70.0 to 130 | 3.19 | 20.0 |
| BC03248 | Thallium, Total | mg/L | 0.0000004 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.111 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC03530 | Total Organic Carbon | mg/L | 0.260 | 1.00 | 10.0 | 10.0 | 9.26 | 22.9 | | 100 | 80.0 to 120 | 7.68 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/14/22 15:10

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond Field Blank-3

Laboratory ID Number: BC03248

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | MSD | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/14/22 15:10

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond Field Blank-3

Laboratory ID Number: BC03248

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC03249 | Chloride | mg/L | -0.0102 | 1.00 | 40.0 | 71.0 | 30.6 | 10.1 | 9.00 to 11.0 | 103 | 80.0 to 120 | 2.65 | 20.0 |
| BC03249 | Fluoride | mg/L | -0.0432 | 0.125 | 2.50 | 2.76 | 0.155 | 2.60 | 2.25 to 2.75 | 104 | 80.0 to 120 | 4.62 | 20.0 |
| BC03528 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.80 | -0.023 | 1.81 | 1.80 to 2.20 | 90.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03249 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 364 | 50.0 | 40.0 to 60.0 | | | 2.79 | 10.0 |
| BC03528 | Sulfate | mg/L | -0.0901 | 2.0 | 320 | 553 | 249 | 20.6 | 18.0 to 22.0 | 103 | 80.0 to 120 | 10.6 | 20.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-32H

Location Code: WMWGORAP
Collected: 2/14/22 15:45
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03249

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:52 | | 1.015 | 0.0443 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:52 | | 1.015 | 2.53 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:52 | | 1.015 | 0.0573 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:52 | | 1.015 | 0.0407 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:52 | | 1.015 | 0.490 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:52 | | 1 | 11.1 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:52 | | 1.015 | 5.18 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:44 | | 20.3 | 140 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:54 | | 1.015 | 0.0447 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 08:54 | | 1.015 | 2.27 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 08:54 | | 1.015 | 0.0219 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:54 | | 1.015 | 0.0396 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:54 | | 1.015 | 0.446 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:54 | | 1 | 11.3 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:54 | | 1.015 | 5.29 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:52 | | 20.3 | 138 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | 0.0555 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | 0.000615 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | 0.0470 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | 0.000262 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | 0.00781 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | 0.0933 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | 2.10 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-32H

Location Code: WMWGORAP
Collected: 2/14/22 15:45
Customer ID:
Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03249

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:47 | 2/18/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | 0.0144 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | 0.000440 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | 0.0427 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | 0.000289 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | 0.00619 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | 0.0855 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | 2.01 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 11:25 | 2/17/22 11:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:37 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:29 | 2/21/22 13:29 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 234 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/16/22 11:06 | 2/18/22 10:00 | | 1 | 354 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 230 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/22/22 13:25 | 2/22/22 16:32 | | 1 | 4.12 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 04:03 | 2/19/22 04:03 | | 1 | 1.01 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-32H

Location Code: WMWGORAP

Collected: 2/14/22 15:45

Customer ID:

Submittal Date: 2/15/22 11:16

Laboratory ID Number: BC03249

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 10:24 | 2/16/22 10:24 | | 4 | 29.8 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/16/22 11:46 | 2/16/22 11:46 | | 1 | 0.148 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:57 | 2/22/22 11:57 | | 1 | 38.4 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 2/14/22 15:42 | 2/14/22 15:42 | | | 592.54 | uS/cm | | | FA |
| pH | 2/14/22 15:42 | 2/14/22 15:42 | | | 8.22 | SU | | | FA |
| Temperature | 2/14/22 15:42 | 2/14/22 15:42 | | | 16.24 | C | | | FA |
| Turbidity | 2/14/22 15:42 | 2/14/22 15:42 | | | 1.72 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 15:45

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-32H

Laboratory ID Number: BC03249

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03249 | Aluminum, Dissolved | mg/L | 0.000413 | 0.010 | 0.100 | 0.112 | 0.115 | 0.106 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 2.64 | 20.0 | |
| BC03249 | Aluminum, Total | mg/L | 0.000890 | 0.010 | 0.100 | 0.154 | 0.150 | 0.102 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 2.63 | 20.0 | |
| BC03249 | Antimony, Dissolved | mg/L | 0.000606 | 0.00100 | 0.100 | 0.0952 | 0.0965 | 0.0930 | 0.0850 to 0.115 | 95.2 | 70.0 to 130 | 1.36 | 20.0 | |
| BC03249 | Antimony, Total | mg/L | 0.000290 | 0.00100 | 0.100 | 0.0999 | 0.0968 | 0.0947 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 3.15 | 20.0 | |
| BC03249 | Arsenic, Dissolved | mg/L | 0.000648 | 0.000176 | 0.100 | 0.101 | 0.0984 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.61 | 20.0 | |
| BC03249 | Arsenic, Total | mg/L | 0.0000113 | 0.000176 | 0.100 | 0.105 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 | |
| BC03249 | Barium, Dissolved | mg/L | 0.0000134 | 0.000200 | 0.100 | 0.142 | 0.138 | 0.101 | 0.0850 to 0.115 | 99.3 | 70.0 to 130 | 2.86 | 20.0 | |
| BC03249 | Barium, Total | mg/L | -0.0000447 | 0.000200 | 0.100 | 0.150 | 0.151 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.664 | 20.0 | |
| BC03249 | Beryllium, Dissolved | mg/L | 0.000381 | 0.000880 | 0.100 | 0.100 | 0.101 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 | |
| BC03249 | Beryllium, Total | mg/L | 0.000133 | 0.000880 | 0.100 | 0.0975 | 0.102 | 0.104 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 4.51 | 20.0 | |
| BC03530 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 2.50 | 2.49 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.401 | 20.0 | |
| BC03528 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.05 | 1.06 | 0.988 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.948 | 20.0 | |
| BC03249 | Cadmium, Dissolved | mg/L | 0.000024 | 0.000147 | 0.100 | 0.0969 | 0.100 | 0.103 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 | |
| BC03249 | Cadmium, Total | mg/L | 0.0000096 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 | |
| BC03530 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 60.4 | 60.3 | 4.91 | 4.25 to 5.75 | 62.0 | 70.0 to 130 | 0.166 | 20.0 | |
| BC03528 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 19.0 | 19.1 | 4.87 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 0.525 | 20.0 | |
| BC03249 | Chromium, Dissolved | mg/L | 0.0000821 | 0.000440 | 0.100 | 0.0969 | 0.0983 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 1.43 | 20.0 | |
| BC03249 | Chromium, Total | mg/L | 0.0000219 | 0.000440 | 0.100 | 0.102 | 0.102 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03249 | Cobalt, Dissolved | mg/L | 0.0000775 | 0.000147 | 0.100 | 0.0995 | 0.100 | 0.103 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 0.501 | 20.0 | |
| BC03249 | Cobalt, Total | mg/L | 0.0000041 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.108 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 | |
| BC03530 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.208 | 0.212 | 0.200 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 1.90 | 20.0 | |
| BC03528 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.223 | 0.226 | 0.198 | 0.170 to 0.230 | 95.3 | 70.0 to 130 | 1.34 | 20.0 | |
| BC03249 | Lead, Dissolved | mg/L | 0.0000103 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 15:45

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-32H

Laboratory ID Number: BC03249

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03249 | Lead, Total | mg/L | 0.000056 | 0.000147 | 0.100 | 0.106 | 0.108 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.87 | 20.0 |
| BC03530 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.550 | 0.553 | 0.194 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.544 | 20.0 |
| BC03528 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.278 | 0.283 | 0.204 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.78 | 20.0 |
| BC03530 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 22.7 | 22.9 | 5.07 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 0.877 | 20.0 |
| BC03528 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 10.1 | 10.4 | 5.16 | 4.25 to 5.75 | 95.6 | 70.0 to 130 | 2.93 | 20.0 |
| BC03249 | Manganese, Dissolved | mg/L | 0.0000959 | 0.0002 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.948 | 20.0 |
| BC03249 | Manganese, Total | mg/L | 0.0000394 | 0.0002 | 0.100 | 0.111 | 0.111 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC03528 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.00387 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 96.8 | 70.0 to 130 | 0.772 | 20.0 |
| BC03249 | Molybdenum, Dissolved | mg/L | 0.0000882 | 0.0002 | 0.100 | 0.183 | 0.182 | 0.0994 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 0.548 | 20.0 |
| BC03249 | Molybdenum, Total | mg/L | 0.000014 | 0.0002 | 0.100 | 0.198 | 0.196 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.02 | 20.0 |
| BC03249 | Potassium, Dissolved | mg/L | -0.00876 | 0.367 | 10.0 | 11.5 | 11.9 | 10.2 | 8.50 to 11.5 | 94.9 | 70.0 to 130 | 3.42 | 20.0 |
| BC03249 | Potassium, Total | mg/L | -0.0141 | 0.367 | 10.0 | 12.0 | 12.0 | 10.3 | 8.50 to 11.5 | 99.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03249 | Selenium, Dissolved | mg/L | 0.000160 | 0.00100 | 0.100 | 0.102 | 0.103 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC03249 | Selenium, Total | mg/L | 0.0000227 | 0.00100 | 0.100 | 0.108 | 0.107 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC03530 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 8.42 | 8.41 | 1.00 | 0.850 to 1.15 | 98.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03528 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 8.11 | 8.12 | 1.02 | 0.850 to 1.15 | 92.0 | 70.0 to 130 | 0.123 | 20.0 |
| BC03530 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 23.8 | 24.1 | 4.98 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.25 | 20.0 |
| BC03528 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 216 | 223 | 5.12 | 4.25 to 5.75 | -120 | 70.0 to 130 | 3.19 | 20.0 |
| BC03249 | Thallium, Dissolved | mg/L | 0.0000078 | 0.000147 | 0.100 | 0.0994 | 0.0996 | 0.102 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.201 | 20.0 |
| BC03249 | Thallium, Total | mg/L | 0.0000044 | 0.000147 | 0.100 | 0.106 | 0.111 | 0.109 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 4.61 | 20.0 |
| BC03530 | Total Organic Carbon | mg/L | 0.260 | 1.00 | 10.0 | 10.0 | 9.26 | 22.9 | | 100 | 80.0 to 120 | 7.68 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/14/22 15:45

Customer ID:

Delivery Date: 2/15/22 11:16

Description: Gorgas Ash Pond - MW-32H

Laboratory ID Number: BC03249

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC03249 | Alkalinity, Total as CaCO3 | mg/L | | | | | 249 | 50.4 | 45.0 to 55.0 | | | 6.21 | 10.0 |
| BC03249 | Chloride | mg/L | -0.0102 | 1.00 | 40.0 | 71.0 | 30.6 | 10.1 | 9.00 to 11.0 | 103 | 80.0 to 120 | 2.65 | 20.0 |
| BC03249 | Fluoride | mg/L | -0.0432 | 0.125 | 2.50 | 2.76 | 0.155 | 2.60 | 2.25 to 2.75 | 104 | 80.0 to 120 | 4.62 | 20.0 |
| BC03528 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.80 | -0.023 | 1.81 | 1.80 to 2.20 | 90.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03249 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 364 | 50.0 | 40.0 to 60.0 | | | 2.79 | 10.0 |
| BC03528 | Sulfate | mg/L | -0.0901 | 2.0 | 320 | 553 | 249 | 20.6 | 18.0 to 22.0 | 103 | 80.0 to 120 | 10.6 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-16

Location Code: WMWGORAP
Collected: 2/15/22 11:08
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03523

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:53 | | 1.015 | 0.0781 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:53 | | 1.015 | 11.5 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:53 | | 1.015 | 0.269 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:53 | | 1.015 | 0.0614 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:53 | | 1.015 | 2.20 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:53 | | 1 | 18.6 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:53 | | 1.015 | 8.67 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:46 | | 20.3 | 157 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:56 | | 1.015 | 0.0774 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 08:56 | | 1.015 | 9.30 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 08:56 | | 1.015 | 0.0380 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:56 | | 1.015 | 0.0603 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:56 | | 1.015 | 2.04 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:56 | | 1 | 18.1 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:56 | | 1.015 | 8.44 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:54 | | 20.3 | 153 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | 0.329 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | 0.00112 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | 0.205 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | 0.000297 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | 0.0000811 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | 0.000665 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | 0.0198 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | 0.00266 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | 2.67 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-16

Location Code: WMWGORAP
Collected: 2/15/22 11:08
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03523

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 14:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | 0.00615 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | 0.000977 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | 0.177 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | 0.000264 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | 0.0167 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | 0.00309 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | 2.52 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:41 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:31 | 2/21/22 13:31 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 347 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 402 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 320 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 26.8 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 04:20 | 2/19/22 04:20 | | 1 | 1.31 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-16

Location Code: WMWGORAP

Collected: 2/15/22 11:08

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03523

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:03 | 2/18/22 14:03 | | 1 | 5.84 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:10 | 2/23/22 09:10 | | 1 | 0.258 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:58 | 2/22/22 11:58 | | 1 | 23.1 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/15/22 11:05 | 2/15/22 11:05 | | | 595.35 | uS/cm | | | FA |
| pH | 2/15/22 11:05 | 2/15/22 11:05 | | | 9.34 | SU | | | FA |
| Temperature | 2/15/22 11:05 | 2/15/22 11:05 | | | 17.09 | C | | | FA |
| Turbidity | 2/15/22 11:05 | 2/15/22 11:05 | | | 3.18 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 11:08

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - PZ-16

Laboratory ID Number: BC03523

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03533 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.104 | 0.102 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03532 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.137 | 0.141 | 0.104 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.88 | 20.0 |
| BC03533 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0874 | 0.0893 | 0.0864 | 0.0850 to 0.115 | 87.4 | 70.0 to 130 | 2.15 | 20.0 |
| BC03532 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.101 | 0.0979 | 0.0949 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.12 | 20.0 |
| BC03533 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.100 | 0.102 | 0.0970 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 1.98 | 20.0 |
| BC03532 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0991 | 0.0973 | 0.0968 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.83 | 20.0 |
| BC03533 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.121 | 0.125 | 0.0936 | 0.0850 to 0.115 | 90.6 | 70.0 to 130 | 3.25 | 20.0 |
| BC03532 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 1.07 | 1.03 | 0.0929 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC03533 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0918 | 0.0921 | 0.0926 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.326 | 20.0 |
| BC03532 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0908 | 0.0912 | 0.0918 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.440 | 20.0 |
| BC03530 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 2.50 | 2.49 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03528 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.05 | 1.06 | 0.988 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC03533 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0963 | 0.0999 | 0.0985 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 3.67 | 20.0 |
| BC03532 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.0975 | 0.101 | 0.0980 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 3.53 | 20.0 |
| BC03530 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 60.4 | 60.3 | 4.91 | 4.25 to 5.75 | 62.0 | 70.0 to 130 | 0.166 | 20.0 |
| BC03528 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 19.0 | 19.1 | 4.87 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 0.525 | 20.0 |
| BC03533 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0977 | 0.0962 | 0.0973 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 1.55 | 20.0 |
| BC03532 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.0967 | 0.0971 | 0.0974 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.413 | 20.0 |
| BC03533 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0984 | 0.0964 | 0.101 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 2.05 | 20.0 |
| BC03532 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.0980 | 0.0985 | 0.101 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.509 | 20.0 |
| BC03530 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.208 | 0.212 | 0.200 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 1.90 | 20.0 |
| BC03528 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.223 | 0.226 | 0.198 | 0.170 to 0.230 | 95.3 | 70.0 to 130 | 1.34 | 20.0 |
| BC03533 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0976 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.103 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 11:08

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - PZ-16

Laboratory ID Number: BC03523

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03532 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0968 | 0.0959 | 0.0976 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.934 | 20.0 |
| BC03530 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.550 | 0.553 | 0.194 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.544 | 20.0 |
| BC03528 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.278 | 0.283 | 0.204 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.78 | 20.0 |
| BC03530 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 22.7 | 22.9 | 5.07 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 0.877 | 20.0 |
| BC03528 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 10.1 | 10.4 | 5.16 | 4.25 to 5.75 | 95.6 | 70.0 to 130 | 2.93 | 20.0 |
| BC03533 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.432 | 0.438 | 0.0944 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.38 | 20.0 |
| BC03532 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.199 | 0.192 | 0.0963 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 3.58 | 20.0 |
| BC03528 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.00387 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 96.8 | 70.0 to 130 | 0.772 | 20.0 |
| BC03533 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.0976 | 0.0982 | 0.0967 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.613 | 20.0 |
| BC03532 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0956 | 0.0981 | 0.0950 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 2.58 | 20.0 |
| BC03533 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 14.1 | 13.9 | 9.81 | 8.50 to 11.5 | 97.4 | 70.0 to 130 | 1.43 | 20.0 |
| BC03532 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 11.4 | 11.5 | 9.86 | 8.50 to 11.5 | 99.7 | 70.0 to 130 | 0.873 | 20.0 |
| BC03533 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03532 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0997 | 0.0965 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03530 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 8.42 | 8.41 | 1.00 | 0.850 to 1.15 | 98.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03528 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 8.11 | 8.12 | 1.02 | 0.850 to 1.15 | 92.0 | 70.0 to 130 | 0.123 | 20.0 |
| BC03530 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 23.8 | 24.1 | 4.98 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.25 | 20.0 |
| BC03528 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 216 | 223 | 5.12 | 4.25 to 5.75 | -120 | 70.0 to 130 | 3.19 | 20.0 |
| BC03533 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0970 | 0.0974 | 0.0982 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.412 | 20.0 |
| BC03532 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0964 | 0.0959 | 0.0973 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.520 | 20.0 |
| BC03530 | Total Organic Carbon | mg/L | 0.260 | 1.00 | 10.0 | 10.0 | 9.26 | 22.9 | | 100 | 80.0 to 120 | 7.68 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 11:08

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - PZ-16

Laboratory ID Number: BC03523

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03531 | Alkalinity, Total as CaCO3 | mg/L | | | | | 258 | 49.7 | 45.0 to 55.0 | | | 3.95 | 10.0 |
| BC03532 | Chloride | mg/L | -0.0706 | 1.00 | 10.0 | 13.9 | 3.36 | 10.3 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.50 | 20.0 |
| BC03532 | Fluoride | mg/L | -0.031 | 0.125 | 2.50 | 2.75 | 0.186 | 2.58 | 2.25 to 2.75 | 103 | 80.0 to 120 | 7.82 | 20.0 |
| BC03528 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.80 | -0.023 | 1.81 | 1.80 to 2.20 | 90.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03524 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 215 | 51.0 | 40.0 to 60.0 | | | 0.466 | 10.0 |
| BC03528 | Sulfate | mg/L | -0.0901 | 2.0 | 320 | 553 | 249 | 20.6 | 18.0 to 22.0 | 103 | 80.0 to 120 | 10.6 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16D

Location Code: WMWGORAP
Collected: 2/15/22 12:48
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03524

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:55 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:55 | | 1.015 | 31.5 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:55 | | 1.015 | 0.278 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:55 | | 1.015 | 0.0330 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:55 | | 1.015 | 12.2 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:55 | | 1 | 22.9 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:55 | | 1.015 | 10.7 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 09:55 | | 1.015 | 29.4 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 08:58 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 08:58 | | 1.015 | 32.2 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 08:58 | | 1.015 | 0.179 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 08:58 | | 1.015 | 0.0330 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 08:58 | | 1.015 | 12.3 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 08:58 | | 1 | 23.1 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 08:58 | | 1.015 | 10.8 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 08:58 | | 1.015 | 30.1 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | 0.0540 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | 0.000117 | mg/L | 0.000068 | 0.000203 | J | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | 0.322 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | 0.000249 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | 0.0120 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | 0.000322 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | 1.45 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16D

Location Code: WMWGORAP

Collected: 2/15/22 12:48

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03524

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | 0.000139 | mg/L | 0.000068 | 0.000203 | J |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | 0.322 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | 0.000392 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | 0.0112 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | 0.000477 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | 1.50 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 12:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:45 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:33 | 2/21/22 13:33 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 223 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 214 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 221 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 2.33 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 04:38 | 2/19/22 04:38 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16D

Location Code: WMWGORAP
Collected: 2/15/22 12:48
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03524

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:04 | 2/18/22 14:04 | | 1 | 3.58 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:11 | 2/23/22 09:11 | | 1 | 0.114 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:59 | 2/22/22 11:59 | | 1 | 14.7 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/15/22 12:44 | 2/15/22 12:44 | | | 344.55 | uS/cm | | | FA |
| pH | 2/15/22 12:44 | 2/15/22 12:44 | | | 7.48 | SU | | | FA |
| Temperature | 2/15/22 12:44 | 2/15/22 12:44 | | | 18.04 | C | | | FA |
| Turbidity | 2/15/22 12:44 | 2/15/22 12:44 | | | 4.56 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 12:48

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: BC03524

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03533 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.104 | 0.102 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03532 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.137 | 0.141 | 0.104 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.88 | 20.0 | |
| BC03533 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0874 | 0.0893 | 0.0864 | 0.0850 to 0.115 | 87.4 | 70.0 to 130 | 2.15 | 20.0 | |
| BC03532 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.101 | 0.0979 | 0.0949 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.12 | 20.0 | |
| BC03533 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.100 | 0.102 | 0.0970 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 1.98 | 20.0 | |
| BC03532 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0991 | 0.0973 | 0.0968 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.83 | 20.0 | |
| BC03533 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.121 | 0.125 | 0.0936 | 0.0850 to 0.115 | 90.6 | 70.0 to 130 | 3.25 | 20.0 | |
| BC03532 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 1.07 | 1.03 | 0.0929 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 | |
| BC03533 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0918 | 0.0921 | 0.0926 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.326 | 20.0 | |
| BC03532 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0908 | 0.0912 | 0.0918 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.440 | 20.0 | |
| BC03530 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 2.50 | 2.49 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.401 | 20.0 | |
| BC03528 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.05 | 1.06 | 0.988 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.948 | 20.0 | |
| BC03533 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0963 | 0.0999 | 0.0985 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 3.67 | 20.0 | |
| BC03532 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.0975 | 0.101 | 0.0980 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 3.53 | 20.0 | |
| BC03530 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 60.4 | 60.3 | 4.91 | 4.25 to 5.75 | 62.0 | 70.0 to 130 | 0.166 | 20.0 | |
| BC03528 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 19.0 | 19.1 | 4.87 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 0.525 | 20.0 | |
| BC03533 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0977 | 0.0962 | 0.0973 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 1.55 | 20.0 | |
| BC03532 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.0967 | 0.0971 | 0.0974 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.413 | 20.0 | |
| BC03533 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0984 | 0.0964 | 0.101 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 2.05 | 20.0 | |
| BC03532 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.0980 | 0.0985 | 0.101 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.509 | 20.0 | |
| BC03530 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.208 | 0.212 | 0.200 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 1.90 | 20.0 | |
| BC03528 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.223 | 0.226 | 0.198 | 0.170 to 0.230 | 95.3 | 70.0 to 130 | 1.34 | 20.0 | |
| BC03533 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0976 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.103 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 12:48

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: BC03524

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03532 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0968 | 0.0959 | 0.0976 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.934 | 20.0 |
| BC03530 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.550 | 0.553 | 0.194 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.544 | 20.0 |
| BC03528 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.278 | 0.283 | 0.204 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.78 | 20.0 |
| BC03530 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 22.7 | 22.9 | 5.07 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 0.877 | 20.0 |
| BC03528 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 10.1 | 10.4 | 5.16 | 4.25 to 5.75 | 95.6 | 70.0 to 130 | 2.93 | 20.0 |
| BC03533 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.432 | 0.438 | 0.0944 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.38 | 20.0 |
| BC03532 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.199 | 0.192 | 0.0963 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 3.58 | 20.0 |
| BC03528 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.00387 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 96.8 | 70.0 to 130 | 0.772 | 20.0 |
| BC03533 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.0976 | 0.0982 | 0.0967 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.613 | 20.0 |
| BC03532 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0956 | 0.0981 | 0.0950 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 2.58 | 20.0 |
| BC03533 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 14.1 | 13.9 | 9.81 | 8.50 to 11.5 | 97.4 | 70.0 to 130 | 1.43 | 20.0 |
| BC03532 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 11.4 | 11.5 | 9.86 | 8.50 to 11.5 | 99.7 | 70.0 to 130 | 0.873 | 20.0 |
| BC03533 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03532 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0997 | 0.0965 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03530 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 8.42 | 8.41 | 1.00 | 0.850 to 1.15 | 98.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03528 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 8.11 | 8.12 | 1.02 | 0.850 to 1.15 | 92.0 | 70.0 to 130 | 0.123 | 20.0 |
| BC03530 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 23.8 | 24.1 | 4.98 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.25 | 20.0 |
| BC03528 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 216 | 223 | 5.12 | 4.25 to 5.75 | -120 | 70.0 to 130 | 3.19 | 20.0 |
| BC03533 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0970 | 0.0974 | 0.0982 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.412 | 20.0 |
| BC03532 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0964 | 0.0959 | 0.0973 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.520 | 20.0 |
| BC03530 | Total Organic Carbon | mg/L | 0.260 | 1.00 | 10.0 | 10.0 | 9.26 | 22.9 | | 100 | 80.0 to 120 | 7.68 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 12:48

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: BC03524

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03531 | Alkalinity, Total as CaCO3 | mg/L | | | | | 258 | 49.7 | 45.0 to 55.0 | | | 3.95 | 10.0 |
| BC03532 | Chloride | mg/L | -0.0706 | 1.00 | 10.0 | 13.9 | 3.36 | 10.3 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.50 | 20.0 |
| BC03532 | Fluoride | mg/L | -0.031 | 0.125 | 2.50 | 2.75 | 0.186 | 2.58 | 2.25 to 2.75 | 103 | 80.0 to 120 | 7.82 | 20.0 |
| BC03528 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.80 | -0.023 | 1.81 | 1.80 to 2.20 | 90.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03524 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 215 | 51.0 | 40.0 to 60.0 | | | 0.466 | 10.0 |
| BC03528 | Sulfate | mg/L | -0.0901 | 2.0 | 320 | 553 | 249 | 20.6 | 18.0 to 22.0 | 103 | 80.0 to 120 | 10.6 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16S

Location Code: WMWGORAP
Collected: 2/15/22 13:52
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03525

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:57 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 11:48 | | 20.3 | 93.6 | mg/L | 1.4007 | 8.12 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:57 | | 1.015 | 0.0532 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:57 | | 1.015 | 0.0911 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:57 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:57 | | 1 | 11.5 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:57 | | 1.015 | 5.36 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:48 | | 20.3 | 168 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:00 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 10:56 | | 20.3 | 85.0 | mg/L | 1.4007 | 8.12 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:00 | | 1.015 | 0.0536 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:00 | | 1.015 | 0.0870 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:00 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:00 | | 1 | 12.5 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:00 | | 1.015 | 5.83 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:56 | | 20.3 | 178 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | 0.000675 | mg/L | 0.000508 | 0.001015 | J | |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 15:50 | | 10.15 | 4.70 | mg/L | 0.04060 | 0.1015 | | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | 0.00110 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | 0.255 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | 0.000342 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | 0.000203 | mg/L | 0.000068 | 0.000203 | | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | 0.000149 | mg/L | 0.000068 | 0.000203 | J | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | 0.0337 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | 4.98 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16S

Location Code: WMWGORAP
Collected: 2/15/22 13:52
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03525

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|----|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 14:30 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 14:01 | | 10.15 | 4.86 | mg/L | 0.04060 | 0.1015 | |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | 0.00120 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | 0.237 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | 0.000196 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | 0.000146 | mg/L | 0.000068 | 0.000203 | J |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | 0.0345 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | 4.70 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 12:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:49 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:34 | 2/21/22 13:34 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 779 | mg/L | | 0.1 | AI |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 664 | mg/L | | 178.6 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 04:59 | 2/19/22 04:59 | | 1 | 2.42 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500CI E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:05 | 2/18/22 14:05 | | 1 | 4.03 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:12 | 2/23/22 09:12 | | 1 | 0.151 | mg/L | 0.06 | 0.1 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16S

Location Code: WMWGORAP

Collected: 2/15/22 13:52

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03525

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|----|----|
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:01 | 2/22/22 12:01 | | 1 | 6.47 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/15/22 13:49 | 2/15/22 13:49 | | | 3597.32 | uS/cm | | | FA |
| pH | 2/15/22 13:49 | 2/15/22 13:49 | | | 11.52 | SU | | | FA |
| Temperature | 2/15/22 13:49 | 2/15/22 13:49 | | | 17.44 | C | | | FA |
| Turbidity | 2/15/22 13:49 | 2/15/22 13:49 | | | 1.3 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 13:52

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-16S

Laboratory ID Number: BC03525

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03533 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.104 | 0.102 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03532 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.137 | 0.141 | 0.104 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.88 | 20.0 |
| BC03533 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0874 | 0.0893 | 0.0864 | 0.0850 to 0.115 | 87.4 | 70.0 to 130 | 2.15 | 20.0 |
| BC03532 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.101 | 0.0979 | 0.0949 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.12 | 20.0 |
| BC03533 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.100 | 0.102 | 0.0970 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 1.98 | 20.0 |
| BC03532 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0991 | 0.0973 | 0.0968 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.83 | 20.0 |
| BC03533 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.121 | 0.125 | 0.0936 | 0.0850 to 0.115 | 90.6 | 70.0 to 130 | 3.25 | 20.0 |
| BC03532 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 1.07 | 1.03 | 0.0929 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC03533 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0918 | 0.0921 | 0.0926 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.326 | 20.0 |
| BC03532 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0908 | 0.0912 | 0.0918 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.440 | 20.0 |
| BC03530 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 2.50 | 2.49 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03528 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.05 | 1.06 | 0.988 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC03533 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0963 | 0.0999 | 0.0985 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 3.67 | 20.0 |
| BC03532 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.0975 | 0.101 | 0.0980 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 3.53 | 20.0 |
| BC03530 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 60.4 | 60.3 | 4.91 | 4.25 to 5.75 | 62.0 | 70.0 to 130 | 0.166 | 20.0 |
| BC03528 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 19.0 | 19.1 | 4.87 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 0.525 | 20.0 |
| BC03533 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0977 | 0.0962 | 0.0973 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 1.55 | 20.0 |
| BC03532 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.0967 | 0.0971 | 0.0974 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.413 | 20.0 |
| BC03533 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0984 | 0.0964 | 0.101 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 2.05 | 20.0 |
| BC03532 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.0980 | 0.0985 | 0.101 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.509 | 20.0 |
| BC03530 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.208 | 0.212 | 0.200 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 1.90 | 20.0 |
| BC03528 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.223 | 0.226 | 0.198 | 0.170 to 0.230 | 95.3 | 70.0 to 130 | 1.34 | 20.0 |
| BC03533 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0976 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.103 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/15/22 13:52
Customer ID:
Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-16S

Laboratory ID Number: BC03525

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03532 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0968 | 0.0959 | 0.0976 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.934 | 20.0 |
| BC03530 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.550 | 0.553 | 0.194 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.544 | 20.0 |
| BC03528 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.278 | 0.283 | 0.204 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.78 | 20.0 |
| BC03530 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 22.7 | 22.9 | 5.07 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 0.877 | 20.0 |
| BC03528 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 10.1 | 10.4 | 5.16 | 4.25 to 5.75 | 95.6 | 70.0 to 130 | 2.93 | 20.0 |
| BC03533 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.432 | 0.438 | 0.0944 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.38 | 20.0 |
| BC03532 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.199 | 0.192 | 0.0963 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 3.58 | 20.0 |
| BC03528 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.00387 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 96.8 | 70.0 to 130 | 0.772 | 20.0 |
| BC03533 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.0976 | 0.0982 | 0.0967 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.613 | 20.0 |
| BC03532 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0956 | 0.0981 | 0.0950 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 2.58 | 20.0 |
| BC03533 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 14.1 | 13.9 | 9.81 | 8.50 to 11.5 | 97.4 | 70.0 to 130 | 1.43 | 20.0 |
| BC03532 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 11.4 | 11.5 | 9.86 | 8.50 to 11.5 | 99.7 | 70.0 to 130 | 0.873 | 20.0 |
| BC03533 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03532 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0997 | 0.0965 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03530 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 8.42 | 8.41 | 1.00 | 0.850 to 1.15 | 98.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03528 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 8.11 | 8.12 | 1.02 | 0.850 to 1.15 | 92.0 | 70.0 to 130 | 0.123 | 20.0 |
| BC03530 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 23.8 | 24.1 | 4.98 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.25 | 20.0 |
| BC03528 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 216 | 223 | 5.12 | 4.25 to 5.75 | -120 | 70.0 to 130 | 3.19 | 20.0 |
| BC03533 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0970 | 0.0974 | 0.0982 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.412 | 20.0 |
| BC03532 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0964 | 0.0959 | 0.0973 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.520 | 20.0 |
| BC03530 | Total Organic Carbon | mg/L | 0.260 | 1.00 | 10.0 | 10.0 | 9.26 | 22.9 | | 100 | 80.0 to 120 | 7.68 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 13:52

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-16S

Laboratory ID Number: BC03525

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03531 | Alkalinity, Total as CaCO3 | mg/L | | | | | 258 | 49.7 | 45.0 to 55.0 | | | 3.95 | 10.0 |
| BC03532 | Chloride | mg/L | -0.0706 | 1.00 | 10.0 | 13.9 | 3.36 | 10.3 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.50 | 20.0 |
| BC03532 | Fluoride | mg/L | -0.031 | 0.125 | 2.50 | 2.75 | 0.186 | 2.58 | 2.25 to 2.75 | 103 | 80.0 to 120 | 7.82 | 20.0 |
| BC03528 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.80 | -0.023 | 1.81 | 1.80 to 2.20 | 90.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03524 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 215 | 51.0 | 40.0 to 60.0 | | | 0.466 | 10.0 |
| BC03528 | Sulfate | mg/L | -0.0901 | 2.0 | 320 | 553 | 249 | 20.6 | 18.0 to 22.0 | 103 | 80.0 to 120 | 10.6 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-2

Location Code: WMWGORAPFB
Collected: 2/15/22 14:45
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03526

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 09:59 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 09:59 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 09:59 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 09:59 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 09:59 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 09:59 | | 1 | Not Detected | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 09:59 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 09:59 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | 0.000260 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U | |
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 14:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:53 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U | |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:36 | 2/21/22 13:36 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | Not Detected | mg/L | | 25 | U | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-2

Location Code: WMWGORAPFB
Collected: 2/15/22 14:45
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03526

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 05:16 | 2/19/22 05:16 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:07 | 2/18/22 14:07 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:14 | 2/23/22 09:14 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:03 | 2/22/22 12:03 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/15/22 14:45

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond Field Blank-2

Laboratory ID Number: BC03526

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03532 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.137 | 0.141 | 0.104 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.88 | 20.0 |
| BC03532 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.101 | 0.0979 | 0.0949 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.12 | 20.0 |
| BC03532 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0991 | 0.0973 | 0.0968 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.83 | 20.0 |
| BC03532 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 1.07 | 1.03 | 0.0929 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC03532 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0908 | 0.0912 | 0.0918 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.440 | 20.0 |
| BC03528 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.05 | 1.06 | 0.988 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC03532 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.0975 | 0.101 | 0.0980 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 3.53 | 20.0 |
| BC03528 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 19.0 | 19.1 | 4.87 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 0.525 | 20.0 |
| BC03532 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.0967 | 0.0971 | 0.0974 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.413 | 20.0 |
| BC03532 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.0980 | 0.0985 | 0.101 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.509 | 20.0 |
| BC03528 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.223 | 0.226 | 0.198 | 0.170 to 0.230 | 95.3 | 70.0 to 130 | 1.34 | 20.0 |
| BC03532 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0968 | 0.0959 | 0.0976 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.934 | 20.0 |
| BC03528 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.278 | 0.283 | 0.204 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.78 | 20.0 |
| BC03528 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 10.1 | 10.4 | 5.16 | 4.25 to 5.75 | 95.6 | 70.0 to 130 | 2.93 | 20.0 |
| BC03532 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.199 | 0.192 | 0.0963 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 3.58 | 20.0 |
| BC03528 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.00387 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 96.8 | 70.0 to 130 | 0.772 | 20.0 |
| BC03532 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0956 | 0.0981 | 0.0950 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 2.58 | 20.0 |
| BC03532 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 11.4 | 11.5 | 9.86 | 8.50 to 11.5 | 99.7 | 70.0 to 130 | 0.873 | 20.0 |
| BC03532 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0997 | 0.0965 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03528 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 8.11 | 8.12 | 1.02 | 0.850 to 1.15 | 92.0 | 70.0 to 130 | 0.123 | 20.0 |
| BC03528 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 216 | 223 | 5.12 | 4.25 to 5.75 | -120 | 70.0 to 130 | 3.19 | 20.0 |
| BC03532 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0964 | 0.0959 | 0.0973 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.520 | 20.0 |
| BC03530 | Total Organic Carbon | mg/L | 0.260 | 1.00 | 10.0 | 10.0 | 9.26 | 22.9 | | 100 | 80.0 to 120 | 7.68 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/15/22 14:45

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond Field Blank-2

Laboratory ID Number: BC03526

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | MSD | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/15/22 14:45

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond Field Blank-2

Laboratory ID Number: BC03526

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03532 | Chloride | mg/L | -0.0706 | 1.00 | 10.0 | 13.9 | 3.36 | 10.3 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.50 | 20.0 |
| BC03532 | Fluoride | mg/L | -0.031 | 0.125 | 2.50 | 2.75 | 0.186 | 2.58 | 2.25 to 2.75 | 103 | 80.0 to 120 | 7.82 | 20.0 |
| BC03528 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.80 | -0.023 | 1.81 | 1.80 to 2.20 | 90.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03535 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 772 | 51.0 | 40.0 to 60.0 | | | 0.259 | 10.0 |
| BC03528 | Sulfate | mg/L | -0.0901 | 2.0 | 320 | 553 | 249 | 20.6 | 18.0 to 22.0 | 103 | 80.0 to 120 | 10.6 | 20.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15

Location Code: WMWGORAP
Collected: 2/16/22 10:39
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03527

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:01 | | 1.015 | 0.0323 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:01 | | 1.015 | 6.76 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:01 | | 1.015 | 0.0310 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:01 | | 1.015 | 0.263 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:01 | | 1.015 | 1.91 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 11:49 | | 1 | 47.7 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 11:49 | | 20.3 | 22.3 | mg/L | 0.406 | 5.075 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:49 | | 20.3 | 155 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:02 | | 1.015 | 0.0319 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:02 | | 1.015 | 6.84 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:02 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:02 | | 1.015 | 0.254 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:02 | | 1.015 | 1.79 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 10:58 | | 1 | 46.9 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 10:58 | | 20.3 | 21.9 | mg/L | 0.406 | 5.075 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 10:58 | | 20.3 | 157 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | 0.000778 | mg/L | 0.000508 | 0.001015 | J | |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | 0.551 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | 0.00592 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | 0.271 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | 0.000485 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | 0.000562 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | 0.0306 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | 5.34 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15

Location Code: WMWGORAP
Collected: 2/16/22 10:39
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03527

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 14:37 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | 0.407 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | 0.00553 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | 0.268 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | 0.000206 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | 0.0000975 | mg/L | 0.000068 | 0.000203 | J |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | 0.0301 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | 5.08 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 12:40 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 19:57 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:38 | 2/21/22 13:38 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 461 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 426 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 26.6 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 362 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 05:30 | 2/19/22 05:30 | | 1 | 8.32 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15

Location Code: WMWGORAP

Collected: 2/16/22 10:39

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03527

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:08 | 2/18/22 14:08 | | 1 | 5.86 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:15 | 2/23/22 09:15 | | 1 | 0.349 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 11:53 | 2/22/22 11:53 | | 1 | 7.37 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/16/22 10:35 | 2/16/22 10:35 | | | 841.02 | uS/cm | | | FA |
| pH | 2/16/22 10:35 | 2/16/22 10:35 | | | 11.57 | SU | | | FA |
| Temperature | 2/16/22 10:35 | 2/16/22 10:35 | | | 18.35 | C | | | FA |
| Turbidity | 2/16/22 10:35 | 2/16/22 10:35 | | | 1.11 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 10:39

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: BC03527

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03533 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.104 | 0.102 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03532 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.137 | 0.141 | 0.104 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.88 | 20.0 | |
| BC03533 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0874 | 0.0893 | 0.0864 | 0.0850 to 0.115 | 87.4 | 70.0 to 130 | 2.15 | 20.0 | |
| BC03532 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.101 | 0.0979 | 0.0949 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.12 | 20.0 | |
| BC03533 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.100 | 0.102 | 0.0970 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 1.98 | 20.0 | |
| BC03532 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0991 | 0.0973 | 0.0968 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.83 | 20.0 | |
| BC03533 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.121 | 0.125 | 0.0936 | 0.0850 to 0.115 | 90.6 | 70.0 to 130 | 3.25 | 20.0 | |
| BC03532 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 1.07 | 1.03 | 0.0929 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 | |
| BC03533 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0918 | 0.0921 | 0.0926 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.326 | 20.0 | |
| BC03532 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0908 | 0.0912 | 0.0918 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.440 | 20.0 | |
| BC03530 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 2.50 | 2.49 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.401 | 20.0 | |
| BC03528 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.05 | 1.06 | 0.988 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.948 | 20.0 | |
| BC03533 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0963 | 0.0999 | 0.0985 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 3.67 | 20.0 | |
| BC03532 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.0975 | 0.101 | 0.0980 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 3.53 | 20.0 | |
| BC03530 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 60.4 | 60.3 | 4.91 | 4.25 to 5.75 | 62.0 | 70.0 to 130 | 0.166 | 20.0 | |
| BC03528 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 19.0 | 19.1 | 4.87 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 0.525 | 20.0 | |
| BC03533 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0977 | 0.0962 | 0.0973 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 1.55 | 20.0 | |
| BC03532 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.0967 | 0.0971 | 0.0974 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.413 | 20.0 | |
| BC03533 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0984 | 0.0964 | 0.101 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 2.05 | 20.0 | |
| BC03532 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.0980 | 0.0985 | 0.101 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.509 | 20.0 | |
| BC03530 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.208 | 0.212 | 0.200 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 1.90 | 20.0 | |
| BC03528 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.223 | 0.226 | 0.198 | 0.170 to 0.230 | 95.3 | 70.0 to 130 | 1.34 | 20.0 | |
| BC03533 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0976 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.103 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 10:39

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: BC03527

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03532 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0968 | 0.0959 | 0.0976 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.934 | 20.0 |
| BC03530 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.550 | 0.553 | 0.194 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.544 | 20.0 |
| BC03528 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.278 | 0.283 | 0.204 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.78 | 20.0 |
| BC03530 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 22.7 | 22.9 | 5.07 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 0.877 | 20.0 |
| BC03528 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 10.1 | 10.4 | 5.16 | 4.25 to 5.75 | 95.6 | 70.0 to 130 | 2.93 | 20.0 |
| BC03533 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.432 | 0.438 | 0.0944 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.38 | 20.0 |
| BC03532 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.199 | 0.192 | 0.0963 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 3.58 | 20.0 |
| BC03528 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.00387 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 96.8 | 70.0 to 130 | 0.772 | 20.0 |
| BC03533 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.0976 | 0.0982 | 0.0967 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.613 | 20.0 |
| BC03532 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0956 | 0.0981 | 0.0950 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 2.58 | 20.0 |
| BC03533 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 14.1 | 13.9 | 9.81 | 8.50 to 11.5 | 97.4 | 70.0 to 130 | 1.43 | 20.0 |
| BC03532 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 11.4 | 11.5 | 9.86 | 8.50 to 11.5 | 99.7 | 70.0 to 130 | 0.873 | 20.0 |
| BC03533 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03532 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0997 | 0.0965 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03530 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 8.42 | 8.41 | 1.00 | 0.850 to 1.15 | 98.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03528 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 8.11 | 8.12 | 1.02 | 0.850 to 1.15 | 92.0 | 70.0 to 130 | 0.123 | 20.0 |
| BC03530 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 23.8 | 24.1 | 4.98 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.25 | 20.0 |
| BC03528 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 216 | 223 | 5.12 | 4.25 to 5.75 | -120 | 70.0 to 130 | 3.19 | 20.0 |
| BC03533 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0970 | 0.0974 | 0.0982 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.412 | 20.0 |
| BC03532 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0964 | 0.0959 | 0.0973 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.520 | 20.0 |
| BC03530 | Total Organic Carbon | mg/L | 0.260 | 1.00 | 10.0 | 10.0 | 9.26 | 22.9 | | 100 | 80.0 to 120 | 7.68 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 10:39

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: BC03527

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03531 | Alkalinity, Total as CaCO3 | mg/L | | | | | 258 | 49.7 | 45.0 to 55.0 | | | 3.95 | 10.0 |
| BC03532 | Chloride | mg/L | -0.0706 | 1.00 | 10.0 | 13.9 | 3.36 | 10.3 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.50 | 20.0 |
| BC03532 | Fluoride | mg/L | -0.031 | 0.125 | 2.50 | 2.75 | 0.186 | 2.58 | 2.25 to 2.75 | 103 | 80.0 to 120 | 7.82 | 20.0 |
| BC03528 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.80 | -0.023 | 1.81 | 1.80 to 2.20 | 90.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03535 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 772 | 51.0 | 40.0 to 60.0 | | | 0.259 | 10.0 |
| BC03528 | Sulfate | mg/L | -0.0901 | 2.0 | 320 | 553 | 249 | 20.6 | 18.0 to 22.0 | 103 | 80.0 to 120 | 10.6 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15V

Location Code: WMWGORAP
Collected: 2/16/22 11:45
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03528

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:03 | | 1.015 | 0.0594 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:03 | | 1.015 | 14.3 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:03 | | 1.015 | 0.0324 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:03 | | 1.015 | 0.0788 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:03 | | 1.015 | 5.32 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:03 | | 1 | 15.4 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:03 | | 1.015 | 7.19 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 11:51 | | 20.3 | 222 | mg/L | 0.609 | 8.12 | RA | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:04 | | 1.015 | 0.0579 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:04 | | 1.015 | 13.7 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:04 | | 1.015 | 0.00939 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:04 | | 1.015 | 0.0769 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:04 | | 1.015 | 5.12 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:04 | | 1 | 15.3 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:04 | | 1.015 | 7.13 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 11:00 | | 20.3 | 227 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | 0.00113 | mg/L | 0.000508 | 0.001015 | | |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | 0.0199 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | 0.00810 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | 0.200 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | 0.000622 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | 0.00548 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | 0.0272 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | 11.7 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15V

Location Code: WMWGORAP

Collected: 2/16/22 11:45

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03528

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | 0.000694 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | 0.00764 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | 0.186 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | 0.00462 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | 0.0259 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | 10.8 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 12:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 20:01 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:40 | 2/21/22 13:40 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 228 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 782 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 219 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 8.98 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 05:46 | 2/19/22 05:46 | | 1 | 11.4 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15V

Location Code: WMWGORAP

Collected: 2/16/22 11:45

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03528

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:17 | 2/18/22 14:17 | | 8 | 129 | mg/L | 4.00 | 8 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:16 | 2/23/22 09:16 | | 1 | 0.208 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:04 | 2/22/22 12:04 | | 16 | 224 | mg/L | 8.00 | 16 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/16/22 11:42 | 2/16/22 11:42 | | | 1398.52 | uS/cm | | | FA |
| pH | 2/16/22 11:42 | 2/16/22 11:42 | | | 8.65 | SU | | | FA |
| Temperature | 2/16/22 11:42 | 2/16/22 11:42 | | | 19.25 | C | | | FA |
| Turbidity | 2/16/22 11:42 | 2/16/22 11:42 | | | 1.71 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 11:45

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-15V

Laboratory ID Number: BC03528

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03533 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.104 | 0.102 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03532 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.137 | 0.141 | 0.104 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.88 | 20.0 |
| BC03533 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0874 | 0.0893 | 0.0864 | 0.0850 to 0.115 | 87.4 | 70.0 to 130 | 2.15 | 20.0 |
| BC03532 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.101 | 0.0979 | 0.0949 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.12 | 20.0 |
| BC03533 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.100 | 0.102 | 0.0970 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 1.98 | 20.0 |
| BC03532 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0991 | 0.0973 | 0.0968 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.83 | 20.0 |
| BC03533 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.121 | 0.125 | 0.0936 | 0.0850 to 0.115 | 90.6 | 70.0 to 130 | 3.25 | 20.0 |
| BC03532 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 1.07 | 1.03 | 0.0929 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC03533 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0918 | 0.0921 | 0.0926 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.326 | 20.0 |
| BC03532 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0908 | 0.0912 | 0.0918 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.440 | 20.0 |
| BC03530 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 2.50 | 2.49 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03528 | Boron, Total | mg/L | -0.000344 | 0.0650 | 1.00 | 1.05 | 1.06 | 0.988 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC03533 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0963 | 0.0999 | 0.0985 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 3.67 | 20.0 |
| BC03532 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.0975 | 0.101 | 0.0980 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 3.53 | 20.0 |
| BC03530 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 60.4 | 60.3 | 4.91 | 4.25 to 5.75 | 62.0 | 70.0 to 130 | 0.166 | 20.0 |
| BC03528 | Calcium, Total | mg/L | -0.00796 | 0.152 | 5.00 | 19.0 | 19.1 | 4.87 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 0.525 | 20.0 |
| BC03533 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0977 | 0.0962 | 0.0973 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 1.55 | 20.0 |
| BC03532 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.0967 | 0.0971 | 0.0974 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.413 | 20.0 |
| BC03533 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0984 | 0.0964 | 0.101 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 2.05 | 20.0 |
| BC03532 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.0980 | 0.0985 | 0.101 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.509 | 20.0 |
| BC03530 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.208 | 0.212 | 0.200 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 1.90 | 20.0 |
| BC03528 | Iron, Total | mg/L | -0.0002 | 0.0176 | 0.2 | 0.223 | 0.226 | 0.198 | 0.170 to 0.230 | 95.3 | 70.0 to 130 | 1.34 | 20.0 |
| BC03533 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0976 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.103 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/16/22 11:45
Customer ID:
Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-15V

Laboratory ID Number: BC03528

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03532 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0968 | 0.0959 | 0.0976 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.934 | 20.0 |
| BC03530 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.550 | 0.553 | 0.194 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.544 | 20.0 |
| BC03528 | Lithium, Total | mg/L | -0.000304 | 0.0154 | 0.200 | 0.278 | 0.283 | 0.204 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.78 | 20.0 |
| BC03530 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 22.7 | 22.9 | 5.07 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 0.877 | 20.0 |
| BC03528 | Magnesium, Total | mg/L | -0.00541 | 0.0462 | 5.00 | 10.1 | 10.4 | 5.16 | 4.25 to 5.75 | 95.6 | 70.0 to 130 | 2.93 | 20.0 |
| BC03533 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.432 | 0.438 | 0.0944 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.38 | 20.0 |
| BC03532 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.199 | 0.192 | 0.0963 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 3.58 | 20.0 |
| BC03528 | Mercury, Total by CVAA | mg/L | -9.000E-05 | 0.000500 | 0.004 | 0.00387 | 0.0039 | 0.00387 | 0.00340 to 0.00460 | 96.8 | 70.0 to 130 | 0.772 | 20.0 |
| BC03533 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.0976 | 0.0982 | 0.0967 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.613 | 20.0 |
| BC03532 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0956 | 0.0981 | 0.0950 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 2.58 | 20.0 |
| BC03533 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 14.1 | 13.9 | 9.81 | 8.50 to 11.5 | 97.4 | 70.0 to 130 | 1.43 | 20.0 |
| BC03532 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 11.4 | 11.5 | 9.86 | 8.50 to 11.5 | 99.7 | 70.0 to 130 | 0.873 | 20.0 |
| BC03533 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03532 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0997 | 0.0965 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03530 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 8.42 | 8.41 | 1.00 | 0.850 to 1.15 | 98.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03528 | Silicon, Total | mg/L | -0.000132 | 0.0440 | 1.00 | 8.11 | 8.12 | 1.02 | 0.850 to 1.15 | 92.0 | 70.0 to 130 | 0.123 | 20.0 |
| BC03530 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 23.8 | 24.1 | 4.98 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.25 | 20.0 |
| BC03528 | Sodium, Total | mg/L | -0.00123 | 0.0660 | 5.00 | 216 | 223 | 5.12 | 4.25 to 5.75 | -120 | 70.0 to 130 | 3.19 | 20.0 |
| BC03533 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0970 | 0.0974 | 0.0982 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.412 | 20.0 |
| BC03532 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0964 | 0.0959 | 0.0973 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.520 | 20.0 |
| BC03530 | Total Organic Carbon | mg/L | 0.260 | 1.00 | 10.0 | 10.0 | 9.26 | 22.9 | | 100 | 80.0 to 120 | 7.68 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 11:45

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-15V

Laboratory ID Number: BC03528

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03531 | Alkalinity, Total as CaCO3 | mg/L | | | | | 258 | 49.7 | 45.0 to 55.0 | | | 3.95 | 10.0 |
| BC03532 | Chloride | mg/L | -0.0706 | 1.00 | 10.0 | 13.9 | 3.36 | 10.3 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.50 | 20.0 |
| BC03532 | Fluoride | mg/L | -0.031 | 0.125 | 2.50 | 2.75 | 0.186 | 2.58 | 2.25 to 2.75 | 103 | 80.0 to 120 | 7.82 | 20.0 |
| BC03528 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.80 | -0.023 | 1.81 | 1.80 to 2.20 | 90.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03535 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 772 | 51.0 | 40.0 to 60.0 | | | 0.259 | 10.0 |
| BC03528 | Sulfate | mg/L | -0.0901 | 2.0 | 320 | 553 | 249 | 20.6 | 18.0 to 22.0 | 103 | 80.0 to 120 | 10.6 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-25HA

Location Code: WMWGORAP
Collected: 2/16/22 13:22
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03529

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:16 | | 1.015 | 0.145 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:16 | | 1.015 | 1.82 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:16 | | 1.015 | 0.230 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:16 | | 1.015 | 0.0504 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:16 | | 1.015 | 0.684 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:16 | | 1 | 11.4 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:16 | | 1.015 | 5.35 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:07 | | 20.3 | 358 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:06 | | 1.015 | 0.145 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:06 | | 1.015 | 1.77 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:06 | | 1.015 | 0.0147 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:06 | | 1.015 | 0.0504 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:06 | | 1.015 | 0.652 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:06 | | 1 | 10.7 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:06 | | 1.015 | 5.00 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 11:01 | | 20.3 | 390 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | 0.000752 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | 0.378 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | 0.00968 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | 0.230 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | 0.000620 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | 0.000108 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | 0.000181 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | 0.00799 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | 0.00977 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | 1.23 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-25HA

Location Code: WMWGORAP
Collected: 2/16/22 13:22
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03529

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | 0.0366 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | 0.00936 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | 0.203 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | 0.00541 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | 0.0106 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | 1.20 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 12:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 20:28 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:49 | 2/21/22 13:49 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 691 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/23/22 10:15 | 2/24/22 13:25 | | 1 | 945 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 651 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 39.5 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 06:01 | 2/19/22 06:01 | | 1 | 18.9 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-25HA

Location Code: WMWGORAP
Collected: 2/16/22 13:22
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03529

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:19 | 2/18/22 14:19 | | 8 | 34.3 | mg/L | 4.00 | 8 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:17 | 2/23/22 09:17 | | 1 | 1.89 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:33 | 2/22/22 12:33 | | 8 | 130 | mg/L | 4.00 | 8 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/16/22 13:19 | 2/16/22 13:19 | | | 1455.75 | uS/cm | | | FA |
| pH | 2/16/22 13:19 | 2/16/22 13:19 | | | 8.50 | SU | | | FA |
| Temperature | 2/16/22 13:19 | 2/16/22 13:19 | | | 20.83 | C | | | FA |
| Turbidity | 2/16/22 13:19 | 2/16/22 13:19 | | | 2.96 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 13:22

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-25HA

Laboratory ID Number: BC03529

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03533 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.104 | 0.102 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03532 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.137 | 0.141 | 0.104 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.88 | 20.0 | |
| BC03533 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0874 | 0.0893 | 0.0864 | 0.0850 to 0.115 | 87.4 | 70.0 to 130 | 2.15 | 20.0 | |
| BC03532 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.101 | 0.0979 | 0.0949 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.12 | 20.0 | |
| BC03533 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.100 | 0.102 | 0.0970 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 1.98 | 20.0 | |
| BC03532 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0991 | 0.0973 | 0.0968 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.83 | 20.0 | |
| BC03533 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.121 | 0.125 | 0.0936 | 0.0850 to 0.115 | 90.6 | 70.0 to 130 | 3.25 | 20.0 | |
| BC03532 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 1.07 | 1.03 | 0.0929 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 | |
| BC03533 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0918 | 0.0921 | 0.0926 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.326 | 20.0 | |
| BC03532 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0908 | 0.0912 | 0.0918 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.440 | 20.0 | |
| BC03530 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 2.50 | 2.49 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.401 | 20.0 | |
| BC03538 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 0.953 | 0.981 | 0.982 | 0.850 to 1.15 | 95.3 | 70.0 to 130 | 2.90 | 20.0 | |
| BC03533 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0963 | 0.0999 | 0.0985 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 3.67 | 20.0 | |
| BC03532 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.0975 | 0.101 | 0.0980 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 3.53 | 20.0 | |
| BC03530 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 60.4 | 60.3 | 4.91 | 4.25 to 5.75 | 62.0 | 70.0 to 130 | 0.166 | 20.0 | |
| BC03538 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 4.83 | 4.82 | 4.84 | 4.25 to 5.75 | 96.6 | 70.0 to 130 | 0.207 | 20.0 | |
| BC03533 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0977 | 0.0962 | 0.0973 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 1.55 | 20.0 | |
| BC03532 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.0967 | 0.0971 | 0.0974 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.413 | 20.0 | |
| BC03533 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0984 | 0.0964 | 0.101 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 2.05 | 20.0 | |
| BC03532 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.0980 | 0.0985 | 0.101 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.509 | 20.0 | |
| BC03530 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.208 | 0.212 | 0.200 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 1.90 | 20.0 | |
| BC03538 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 0.192 | 0.196 | 0.196 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 2.06 | 20.0 | |
| BC03533 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0976 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.103 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 13:22

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-25HA

Laboratory ID Number: BC03529

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03532 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0968 | 0.0959 | 0.0976 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.934 | 20.0 |
| BC03530 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.550 | 0.553 | 0.194 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.544 | 20.0 |
| BC03538 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.199 | 0.208 | 0.205 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 4.42 | 20.0 |
| BC03530 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 22.7 | 22.9 | 5.07 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 0.877 | 20.0 |
| BC03538 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 5.08 | 5.21 | 5.15 | 4.25 to 5.75 | 102 | 70.0 to 130 | 2.53 | 20.0 |
| BC03533 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.432 | 0.438 | 0.0944 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.38 | 20.0 |
| BC03532 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.199 | 0.192 | 0.0963 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 3.58 | 20.0 |
| BC03538 | Mercury, Total by CVAA | mg/L | -0.0001 | 0.000500 | 0.004 | 0.00385 | 0.00387 | 0.00385 | 0.00340 to 0.00460 | 96.2 | 70.0 to 130 | 0.518 | 20.0 |
| BC03533 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.0976 | 0.0982 | 0.0967 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.613 | 20.0 |
| BC03532 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0956 | 0.0981 | 0.0950 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 2.58 | 20.0 |
| BC03533 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 14.1 | 13.9 | 9.81 | 8.50 to 11.5 | 97.4 | 70.0 to 130 | 1.43 | 20.0 |
| BC03532 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 11.4 | 11.5 | 9.86 | 8.50 to 11.5 | 99.7 | 70.0 to 130 | 0.873 | 20.0 |
| BC03533 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03532 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0997 | 0.0965 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03530 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 8.42 | 8.41 | 1.00 | 0.850 to 1.15 | 98.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03538 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 0.991 | 1.01 | 1.01 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 1.90 | 20.0 |
| BC03530 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 23.8 | 24.1 | 4.98 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.25 | 20.0 |
| BC03538 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 4.92 | 5.19 | 5.12 | 4.25 to 5.75 | 98.4 | 70.0 to 130 | 5.34 | 20.0 |
| BC03533 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0970 | 0.0974 | 0.0982 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.412 | 20.0 |
| BC03532 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0964 | 0.0959 | 0.0973 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.520 | 20.0 |
| BC03530 | Total Organic Carbon | mg/L | 0.260 | 1.00 | 10.0 | 10.0 | 9.26 | 22.9 | | 100 | 80.0 to 120 | 7.68 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 13:22

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-25HA

Laboratory ID Number: BC03529

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|-------|---------------|
| BC03531 | Alkalinity, Total as CaCO3 | mg/L | | | | | 258 | 49.7 | 45.0 to 55.0 | | | 3.95 | 10.0 |
| BC03532 | Chloride | mg/L | -0.0706 | 1.00 | 10.0 | 13.9 | 3.36 | 10.3 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.50 | 20.0 |
| BC03532 | Fluoride | mg/L | -0.031 | 0.125 | 2.50 | 2.75 | 0.186 | 2.58 | 2.25 to 2.75 | 103 | 80.0 to 120 | 7.82 | 20.0 |
| BC03538 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.72 | -0.028 | 1.84 | 1.80 to 2.20 | 86.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03537 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 310 | 50.0 | 40.0 to 60.0 | | | 0.972 | 10.0 |
| BC03538 | Sulfate | mg/L | -0.140 | 2.0 | 20.0 | 19.5 | -0.0892 | 19.8 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HD

Location Code: WMWGORAP
Collected: 2/15/22 09:25
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03530

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:18 | | 1.015 | 1.52 | mg/L | 0.030000 | 0.1015 | | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 12:09 | | 20.3 | 57.6 | mg/L | 1.4007 | 8.12 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:18 | | 1.015 | 0.0141 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:18 | | 1.015 | 0.366 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:18 | | 1.015 | 17.9 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:18 | | 1 | 16.0 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:18 | | 1.015 | 7.50 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 10:18 | | 1.015 | 19.0 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:08 | | 1.015 | 1.50 | mg/L | 0.030000 | 0.1015 | | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 11:03 | | 20.3 | 57.3 | mg/L | 1.4007 | 8.12 | RA | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:08 | | 1.015 | 0.0122 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:08 | | 1.015 | 0.352 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:08 | | 1.015 | 17.9 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:08 | | 1 | 15.9 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:08 | | 1.015 | 7.44 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 09:08 | | 1.015 | 18.7 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | 0.00284 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | 0.0441 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | 0.000258 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | 0.00102 | mg/L | 0.000068 | 0.000203 | | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | 0.546 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | 0.0331 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | 1.66 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HD

Location Code: WMWGORAP
Collected: 2/15/22 09:25
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03530

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 14:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | 0.00320 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | 0.0449 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | 0.000996 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | 0.575 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | 0.0322 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | 1.70 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 20:32 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:51 | 2/21/22 13:51 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 153 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 307 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 152 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 0.62 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/19/22 06:21 | 2/19/22 06:21 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HD

Location Code: WMWGORAP

Collected: 2/15/22 09:25

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03530

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:11 | 2/18/22 14:11 | | 1 | 6.67 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:18 | 2/23/22 09:18 | | 1 | 0.125 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:34 | 2/22/22 12:34 | | 8 | 110 | mg/L | 4.00 | 8 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/15/22 09:21 | 2/15/22 09:21 | | | 495.04 | uS/cm | | | FA |
| pH | 2/15/22 09:21 | 2/15/22 09:21 | | | 7.35 | SU | | | FA |
| Temperature | 2/15/22 09:21 | 2/15/22 09:21 | | | 15.98 | C | | | FA |
| Turbidity | 2/15/22 09:21 | 2/15/22 09:21 | | | 0.86 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 09:25

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-41HD

Laboratory ID Number: BC03530

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03533 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.104 | 0.102 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03532 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.137 | 0.141 | 0.104 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.88 | 20.0 | |
| BC03533 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0874 | 0.0893 | 0.0864 | 0.0850 to 0.115 | 87.4 | 70.0 to 130 | 2.15 | 20.0 | |
| BC03532 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.101 | 0.0979 | 0.0949 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.12 | 20.0 | |
| BC03533 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.100 | 0.102 | 0.0970 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 1.98 | 20.0 | |
| BC03532 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0991 | 0.0973 | 0.0968 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.83 | 20.0 | |
| BC03533 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.121 | 0.125 | 0.0936 | 0.0850 to 0.115 | 90.6 | 70.0 to 130 | 3.25 | 20.0 | |
| BC03532 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 1.07 | 1.03 | 0.0929 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 | |
| BC03533 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0918 | 0.0921 | 0.0926 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.326 | 20.0 | |
| BC03532 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0908 | 0.0912 | 0.0918 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.440 | 20.0 | |
| BC03530 | Boron, Dissolved | mg/L | -0.000009 | 0.0650 | 1.00 | 2.50 | 2.49 | 0.958 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.401 | 20.0 | |
| BC03538 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 0.953 | 0.981 | 0.982 | 0.850 to 1.15 | 95.3 | 70.0 to 130 | 2.90 | 20.0 | |
| BC03533 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0963 | 0.0999 | 0.0985 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 3.67 | 20.0 | |
| BC03532 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.0975 | 0.101 | 0.0980 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 3.53 | 20.0 | |
| BC03530 | Calcium, Dissolved | mg/L | -0.0100 | 0.152 | 5.00 | 60.4 | 60.3 | 4.91 | 4.25 to 5.75 | 62.0 | 70.0 to 130 | 0.166 | 20.0 | |
| BC03538 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 4.83 | 4.82 | 4.84 | 4.25 to 5.75 | 96.6 | 70.0 to 130 | 0.207 | 20.0 | |
| BC03533 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0977 | 0.0962 | 0.0973 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 1.55 | 20.0 | |
| BC03532 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.0967 | 0.0971 | 0.0974 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.413 | 20.0 | |
| BC03533 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0984 | 0.0964 | 0.101 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 2.05 | 20.0 | |
| BC03532 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.0980 | 0.0985 | 0.101 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.509 | 20.0 | |
| BC03530 | Iron, Dissolved | mg/L | -0.000587 | 0.0176 | 0.2 | 0.208 | 0.212 | 0.200 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 1.90 | 20.0 | |
| BC03538 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 0.192 | 0.196 | 0.196 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 2.06 | 20.0 | |
| BC03533 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0976 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.103 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 09:25

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-41HD

Laboratory ID Number: BC03530

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03532 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0968 | 0.0959 | 0.0976 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.934 | 20.0 |
| BC03530 | Lithium, Dissolved | mg/L | 0.000167 | 0.0154 | 0.200 | 0.550 | 0.553 | 0.194 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.544 | 20.0 |
| BC03538 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.199 | 0.208 | 0.205 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 4.42 | 20.0 |
| BC03530 | Magnesium, Dissolved | mg/L | -0.00744 | 0.0462 | 5.00 | 22.7 | 22.9 | 5.07 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 0.877 | 20.0 |
| BC03538 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 5.08 | 5.21 | 5.15 | 4.25 to 5.75 | 102 | 70.0 to 130 | 2.53 | 20.0 |
| BC03533 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.432 | 0.438 | 0.0944 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.38 | 20.0 |
| BC03532 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.199 | 0.192 | 0.0963 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 3.58 | 20.0 |
| BC03538 | Mercury, Total by CVAA | mg/L | -0.0001 | 0.000500 | 0.004 | 0.00385 | 0.00387 | 0.00385 | 0.00340 to 0.00460 | 96.2 | 70.0 to 130 | 0.518 | 20.0 |
| BC03533 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.0976 | 0.0982 | 0.0967 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.613 | 20.0 |
| BC03532 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0956 | 0.0981 | 0.0950 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 2.58 | 20.0 |
| BC03533 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 14.1 | 13.9 | 9.81 | 8.50 to 11.5 | 97.4 | 70.0 to 130 | 1.43 | 20.0 |
| BC03532 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 11.4 | 11.5 | 9.86 | 8.50 to 11.5 | 99.7 | 70.0 to 130 | 0.873 | 20.0 |
| BC03533 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03532 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0997 | 0.0965 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03530 | Silicon, Dissolved | mg/L | -0.000094 | 0.0440 | 1.00 | 8.42 | 8.41 | 1.00 | 0.850 to 1.15 | 98.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03538 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 0.991 | 1.01 | 1.01 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 1.90 | 20.0 |
| BC03530 | Sodium, Dissolved | mg/L | -0.00619 | 0.0660 | 5.00 | 23.8 | 24.1 | 4.98 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.25 | 20.0 |
| BC03538 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 4.92 | 5.19 | 5.12 | 4.25 to 5.75 | 98.4 | 70.0 to 130 | 5.34 | 20.0 |
| BC03533 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0970 | 0.0974 | 0.0982 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.412 | 20.0 |
| BC03532 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0964 | 0.0959 | 0.0973 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.520 | 20.0 |
| BC03530 | Total Organic Carbon | mg/L | 0.260 | 1.00 | 10.0 | 10.0 | 9.26 | 22.9 | | 100 | 80.0 to 120 | 7.68 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 09:25

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-41HD

Laboratory ID Number: BC03530

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03531 | Alkalinity, Total as CaCO3 | mg/L | | | | | 258 | 49.7 | 45.0 to 55.0 | | | 3.95 | 10.0 |
| BC03532 | Chloride | mg/L | -0.0706 | 1.00 | 10.0 | 13.9 | 3.36 | 10.3 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.50 | 20.0 |
| BC03532 | Fluoride | mg/L | -0.031 | 0.125 | 2.50 | 2.75 | 0.186 | 2.58 | 2.25 to 2.75 | 103 | 80.0 to 120 | 7.82 | 20.0 |
| BC03538 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.72 | -0.028 | 1.84 | 1.80 to 2.20 | 86.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03535 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 772 | 51.0 | 40.0 to 60.0 | | | 0.259 | 10.0 |
| BC03538 | Sulfate | mg/L | -0.140 | 2.0 | 20.0 | 19.5 | -0.0892 | 19.8 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H

Location Code: WMWGORAP
Collected: 2/15/22 10:37
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03531

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:20 | | 1.015 | 0.0708 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 12:11 | | 20.3 | 42.4 | mg/L | 1.4007 | 8.12 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:20 | | 1.015 | 2.02 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:20 | | 1.015 | 0.0239 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:20 | | 1.015 | 14.1 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:20 | | 1 | 29.1 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:20 | | 1.015 | 13.6 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 10:20 | | 1.015 | 32.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:21 | | 1.015 | 0.0692 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 12:18 | | 20.3 | 45.0 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:21 | | 1.015 | 1.84 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:21 | | 1.015 | 0.0233 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:21 | | 1.015 | 13.9 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:21 | | 1 | 28.7 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:21 | | 1.015 | 13.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 09:21 | | 1.015 | 31.6 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | 0.0285 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | 0.000293 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | 0.992 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | 0.000294 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | 0.000230 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | 0.102 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | 0.000529 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | 1.41 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H

Location Code: WMWGORAP
Collected: 2/15/22 10:37
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03531

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | 0.000182 | mg/L | 0.000068 | 0.000203 | J |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | 0.963 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | 0.000169 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | 0.0973 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | 0.000538 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | 1.44 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 20:36 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:53 | 2/21/22 13:53 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 248 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 241 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 245 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/25/22 13:00 | 2/25/22 15:40 | | 1 | 2.77 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/1/22 13:18 | 3/1/22 13:18 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H

Location Code: WMWGORAP

Collected: 2/15/22 10:37

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03531

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:13 | 2/18/22 14:13 | | 1 | 3.18 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:20 | 2/23/22 09:20 | | 1 | 0.176 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:22 | 2/22/22 12:22 | | 1 | 12.1 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/15/22 10:34 | 2/15/22 10:34 | | | 432.15 | uS/cm | | | FA |
| pH | 2/15/22 10:34 | 2/15/22 10:34 | | | 7.00 | SU | | | FA |
| Temperature | 2/15/22 10:34 | 2/15/22 10:34 | | | 17.63 | C | | | FA |
| Turbidity | 2/15/22 10:34 | 2/15/22 10:34 | | | 2.66 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 10:37

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: BC03531

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03533 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.104 | 0.102 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03532 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.137 | 0.141 | 0.104 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.88 | 20.0 | |
| BC03533 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0874 | 0.0893 | 0.0864 | 0.0850 to 0.115 | 87.4 | 70.0 to 130 | 2.15 | 20.0 | |
| BC03532 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.101 | 0.0979 | 0.0949 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.12 | 20.0 | |
| BC03533 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.100 | 0.102 | 0.0970 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 1.98 | 20.0 | |
| BC03532 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0991 | 0.0973 | 0.0968 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.83 | 20.0 | |
| BC03533 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.121 | 0.125 | 0.0936 | 0.0850 to 0.115 | 90.6 | 70.0 to 130 | 3.25 | 20.0 | |
| BC03532 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 1.07 | 1.03 | 0.0929 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 | |
| BC03533 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0918 | 0.0921 | 0.0926 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.326 | 20.0 | |
| BC03532 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0908 | 0.0912 | 0.0918 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.440 | 20.0 | |
| BC03955 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.993 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03538 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 0.953 | 0.981 | 0.982 | 0.850 to 1.15 | 95.3 | 70.0 to 130 | 2.90 | 20.0 | |
| BC03533 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0963 | 0.0999 | 0.0985 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 3.67 | 20.0 | |
| BC03532 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.0975 | 0.101 | 0.0980 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 3.53 | 20.0 | |
| BC03955 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 14.2 | 14.3 | 4.84 | 4.25 to 5.75 | 97.0 | 70.0 to 130 | 0.702 | 20.0 | |
| BC03538 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 4.83 | 4.82 | 4.84 | 4.25 to 5.75 | 96.6 | 70.0 to 130 | 0.207 | 20.0 | |
| BC03533 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0977 | 0.0962 | 0.0973 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 1.55 | 20.0 | |
| BC03532 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.0967 | 0.0971 | 0.0974 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.413 | 20.0 | |
| BC03533 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0984 | 0.0964 | 0.101 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 2.05 | 20.0 | |
| BC03532 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.0980 | 0.0985 | 0.101 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.509 | 20.0 | |
| BC03955 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.408 | 0.408 | 0.203 | 0.170 to 0.230 | 98.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03538 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 0.192 | 0.196 | 0.196 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 2.06 | 20.0 | |
| BC03533 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0976 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.103 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 10:37

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: BC03531

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03532 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0968 | 0.0959 | 0.0976 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.934 | 20.0 |
| BC03955 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.237 | 0.233 | 0.198 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.70 | 20.0 |
| BC03538 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.199 | 0.208 | 0.205 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 4.42 | 20.0 |
| BC03955 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 8.93 | 8.82 | 5.11 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.24 | 20.0 |
| BC03538 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 5.08 | 5.21 | 5.15 | 4.25 to 5.75 | 102 | 70.0 to 130 | 2.53 | 20.0 |
| BC03533 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.432 | 0.438 | 0.0944 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.38 | 20.0 |
| BC03532 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.199 | 0.192 | 0.0963 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 3.58 | 20.0 |
| BC03538 | Mercury, Total by CVAA | mg/L | -0.0001 | 0.000500 | 0.004 | 0.00385 | 0.00387 | 0.00385 | 0.00340 to 0.00460 | 96.2 | 70.0 to 130 | 0.518 | 20.0 |
| BC03533 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.0976 | 0.0982 | 0.0967 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.613 | 20.0 |
| BC03532 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0956 | 0.0981 | 0.0950 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 2.58 | 20.0 |
| BC03533 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 14.1 | 13.9 | 9.81 | 8.50 to 11.5 | 97.4 | 70.0 to 130 | 1.43 | 20.0 |
| BC03532 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 11.4 | 11.5 | 9.86 | 8.50 to 11.5 | 99.7 | 70.0 to 130 | 0.873 | 20.0 |
| BC03533 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03532 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0997 | 0.0965 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03955 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 8.40 | 8.39 | 1.02 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03538 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 0.991 | 1.01 | 1.01 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 1.90 | 20.0 |
| BC03955 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 164 | 173 | 5.09 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 5.34 | 20.0 |
| BC03538 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 4.92 | 5.19 | 5.12 | 4.25 to 5.75 | 98.4 | 70.0 to 130 | 5.34 | 20.0 |
| BC03533 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0970 | 0.0974 | 0.0982 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.412 | 20.0 |
| BC03532 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0964 | 0.0959 | 0.0973 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.520 | 20.0 |
| BC03953 | Total Organic Carbon | mg/L | 0.230 | 1.00 | 10.0 | 14.7 | 14.3 | 9.69 | | 94.9 | 80.0 to 120 | 2.76 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 10:37

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: BC03531

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03531 | Alkalinity, Total as CaCO3 | mg/L | | | | | 258 | 49.7 | 45.0 to 55.0 | | | 3.95 | 10.0 |
| BC03532 | Chloride | mg/L | -0.0706 | 1.00 | 10.0 | 13.9 | 3.36 | 10.3 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.50 | 20.0 |
| BC03532 | Fluoride | mg/L | -0.031 | 0.125 | 2.50 | 2.75 | 0.186 | 2.58 | 2.25 to 2.75 | 103 | 80.0 to 120 | 7.82 | 20.0 |
| BC03538 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.72 | -0.028 | 1.84 | 1.80 to 2.20 | 86.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03535 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 772 | 51.0 | 40.0 to 60.0 | | | 0.259 | 10.0 |
| BC03538 | Sulfate | mg/L | -0.140 | 2.0 | 20.0 | 19.5 | -0.0892 | 19.8 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H DUP

Location Code: WMWGORAP
Collected: 2/15/22 10:37
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03532

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:22 | | 1.015 | 0.0695 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 12:13 | | 20.3 | 42.4 | mg/L | 1.4007 | 8.12 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:22 | | 1.015 | 2.02 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:22 | | 1.015 | 0.0238 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:22 | | 1.015 | 14.0 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:22 | | 1 | 28.9 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:22 | | 1.015 | 13.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 10:22 | | 1.015 | 31.4 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:23 | | 1.015 | 0.0692 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 12:20 | | 20.3 | 43.2 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:23 | | 1.015 | 1.82 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:23 | | 1.015 | 0.0239 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:23 | | 1.015 | 14.0 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:23 | | 1 | 28.5 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:23 | | 1.015 | 13.3 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 09:23 | | 1.015 | 32.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | 0.0278 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | 0.000327 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | 0.963 | mg/L | 0.000102 | 0.000203 | RA |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | 0.000266 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | 0.000238 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | 0.102 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | 0.000477 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | 1.43 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H DUP

Location Code: WMWGORAP

Collected: 2/15/22 10:37

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03532

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | 0.000231 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | 0.963 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | 0.000205 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | 0.0976 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | 0.000456 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | 1.37 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 20:40 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:55 | 2/21/22 13:55 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 227 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 248 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 226 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 0.61 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/1/22 13:37 | 3/1/22 13:37 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H DUP

Location Code: WMWGORAP

Collected: 2/15/22 10:37

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03532

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:14 | 2/18/22 14:14 | | 1 | 3.18 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:21 | 2/23/22 09:21 | | 1 | 0.172 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:23 | 2/22/22 12:23 | | 1 | 15.9 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/15/22 10:34 | 2/15/22 10:34 | | | 432.15 | uS/cm | | | FA |
| pH | 2/15/22 10:34 | 2/15/22 10:34 | | | 7.00 | SU | | | FA |
| Temperature | 2/15/22 10:34 | 2/15/22 10:34 | | | 17.63 | C | | | FA |
| Turbidity | 2/15/22 10:34 | 2/15/22 10:34 | | | 2.66 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 10:37

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-24H DUP

Laboratory ID Number: BC03532

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03533 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.104 | 0.102 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03532 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.137 | 0.141 | 0.104 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.88 | 20.0 |
| BC03533 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0874 | 0.0893 | 0.0864 | 0.0850 to 0.115 | 87.4 | 70.0 to 130 | 2.15 | 20.0 |
| BC03532 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.101 | 0.0979 | 0.0949 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.12 | 20.0 |
| BC03533 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.100 | 0.102 | 0.0970 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 1.98 | 20.0 |
| BC03532 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0991 | 0.0973 | 0.0968 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 1.83 | 20.0 |
| BC03533 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.121 | 0.125 | 0.0936 | 0.0850 to 0.115 | 90.6 | 70.0 to 130 | 3.25 | 20.0 |
| BC03532 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 1.07 | 1.03 | 0.0929 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC03533 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0918 | 0.0921 | 0.0926 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.326 | 20.0 |
| BC03532 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0908 | 0.0912 | 0.0918 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.440 | 20.0 |
| BC03955 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.993 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03538 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 0.953 | 0.981 | 0.982 | 0.850 to 1.15 | 95.3 | 70.0 to 130 | 2.90 | 20.0 |
| BC03533 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0963 | 0.0999 | 0.0985 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 3.67 | 20.0 |
| BC03532 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.0975 | 0.101 | 0.0980 | 0.0850 to 0.115 | 97.5 | 70.0 to 130 | 3.53 | 20.0 |
| BC03955 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 14.2 | 14.3 | 4.84 | 4.25 to 5.75 | 97.0 | 70.0 to 130 | 0.702 | 20.0 |
| BC03538 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 4.83 | 4.82 | 4.84 | 4.25 to 5.75 | 96.6 | 70.0 to 130 | 0.207 | 20.0 |
| BC03533 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0977 | 0.0962 | 0.0973 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 1.55 | 20.0 |
| BC03532 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.0967 | 0.0971 | 0.0974 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.413 | 20.0 |
| BC03533 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0984 | 0.0964 | 0.101 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 2.05 | 20.0 |
| BC03532 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.0980 | 0.0985 | 0.101 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.509 | 20.0 |
| BC03955 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.408 | 0.408 | 0.203 | 0.170 to 0.230 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03538 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 0.192 | 0.196 | 0.196 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 2.06 | 20.0 |
| BC03533 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0976 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.103 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 10:37

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-24H DUP

Laboratory ID Number: BC03532

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03532 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0968 | 0.0959 | 0.0976 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.934 | 20.0 |
| BC03955 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.237 | 0.233 | 0.198 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.70 | 20.0 |
| BC03538 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.199 | 0.208 | 0.205 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 4.42 | 20.0 |
| BC03955 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 8.93 | 8.82 | 5.11 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.24 | 20.0 |
| BC03538 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 5.08 | 5.21 | 5.15 | 4.25 to 5.75 | 102 | 70.0 to 130 | 2.53 | 20.0 |
| BC03533 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.432 | 0.438 | 0.0944 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.38 | 20.0 |
| BC03532 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.199 | 0.192 | 0.0963 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 3.58 | 20.0 |
| BC03538 | Mercury, Total by CVAA | mg/L | -0.0001 | 0.000500 | 0.004 | 0.00385 | 0.00387 | 0.00385 | 0.00340 to 0.00460 | 96.2 | 70.0 to 130 | 0.518 | 20.0 |
| BC03533 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.0976 | 0.0982 | 0.0967 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.613 | 20.0 |
| BC03532 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0956 | 0.0981 | 0.0950 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 2.58 | 20.0 |
| BC03533 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 14.1 | 13.9 | 9.81 | 8.50 to 11.5 | 97.4 | 70.0 to 130 | 1.43 | 20.0 |
| BC03532 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 11.4 | 11.5 | 9.86 | 8.50 to 11.5 | 99.7 | 70.0 to 130 | 0.873 | 20.0 |
| BC03533 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03532 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0997 | 0.0965 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03955 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 8.40 | 8.39 | 1.02 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03538 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 0.991 | 1.01 | 1.01 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 1.90 | 20.0 |
| BC03955 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 164 | 173 | 5.09 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 5.34 | 20.0 |
| BC03538 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 4.92 | 5.19 | 5.12 | 4.25 to 5.75 | 98.4 | 70.0 to 130 | 5.34 | 20.0 |
| BC03533 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0970 | 0.0974 | 0.0982 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.412 | 20.0 |
| BC03532 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0964 | 0.0959 | 0.0973 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 0.520 | 20.0 |
| BC03953 | Total Organic Carbon | mg/L | 0.230 | 1.00 | 10.0 | 14.7 | 14.3 | 9.69 | | 94.9 | 80.0 to 120 | 2.76 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 10:37

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-24H DUP

Laboratory ID Number: BC03532

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03537 | Alkalinity, Total as CaCO3 | mg/L | | | | | 179 | 52.0 | 45.0 to 55.0 | | | 5.16 | 10.0 |
| BC03532 | Chloride | mg/L | -0.0706 | 1.00 | 10.0 | 13.9 | 3.36 | 10.3 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.50 | 20.0 |
| BC03532 | Fluoride | mg/L | -0.031 | 0.125 | 2.50 | 2.75 | 0.186 | 2.58 | 2.25 to 2.75 | 103 | 80.0 to 120 | 7.82 | 20.0 |
| BC03538 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.72 | -0.028 | 1.84 | 1.80 to 2.20 | 86.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03535 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 772 | 51.0 | 40.0 to 60.0 | | | 0.259 | 10.0 |
| BC03538 | Sulfate | mg/L | -0.140 | 2.0 | 20.0 | 19.5 | -0.0892 | 19.8 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-40H

Location Code: WMWGORAP
Collected: 2/15/22 12:25
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03533

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:24 | | 1.015 | 0.0321 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 12:15 | | 20.3 | 203 | mg/L | 1.4007 | 8.12 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:24 | | 1.015 | 2.33 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:24 | | 1.015 | 0.0539 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 12:15 | | 20.3 | 93.1 | mg/L | 0.4263 | 8.12 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:24 | | 1 | 25.3 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:24 | | 1.015 | 11.8 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:15 | | 20.3 | 65.1 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:24 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 12:22 | | 20.3 | 210 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:24 | | 1.015 | 2.40 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:24 | | 1.015 | 0.0557 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 12:22 | | 20.3 | 100 | mg/L | 0.4263 | 8.12 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:24 | | 1 | 25.0 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:24 | | 1.015 | 11.7 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:22 | | 20.3 | 66.9 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | 0.000400 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | 0.0298 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | 0.000518 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | 0.373 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | 0.00200 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | 4.71 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-40H

Location Code: WMWGORAP

Collected: 2/15/22 12:25

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03533

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 15:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | 0.000252 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | 0.0304 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | 0.000471 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | 0.341 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | 0.00132 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | 4.36 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 13:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 20:44 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:57 | 2/21/22 13:57 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 237 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 1230 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 237 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 0.15 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/1/22 13:54 | 3/1/22 13:54 | | 1 | 2.14 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-40H

Location Code: WMWGORAP

Collected: 2/15/22 12:25

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03533

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:35 | 2/18/22 14:35 | | 1 | 18.0 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:38 | 2/23/22 09:38 | | 1 | 0.0854 | mg/L | 0.06 | 0.1 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:37 | 2/22/22 12:37 | | 40 | 684 | mg/L | 20.00 | 40 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/15/22 12:22 | 2/15/22 12:22 | | | 1614.47 | uS/cm | | | FA |
| pH | 2/15/22 12:22 | 2/15/22 12:22 | | | 6.60 | SU | | | FA |
| Temperature | 2/15/22 12:22 | 2/15/22 12:22 | | | 20.14 | C | | | FA |
| Turbidity | 2/15/22 12:22 | 2/15/22 12:22 | | | 3.7 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 12:25

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-40H

Laboratory ID Number: BC03533

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03533 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.104 | 0.102 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03538 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 | |
| BC03533 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0874 | 0.0893 | 0.0864 | 0.0850 to 0.115 | 87.4 | 70.0 to 130 | 2.15 | 20.0 | |
| BC03538 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.0977 | 0.0933 | 0.0949 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 4.61 | 20.0 | |
| BC03533 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.100 | 0.102 | 0.0970 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 1.98 | 20.0 | |
| BC03538 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0996 | 0.0996 | 0.0968 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03533 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.121 | 0.125 | 0.0936 | 0.0850 to 0.115 | 90.6 | 70.0 to 130 | 3.25 | 20.0 | |
| BC03538 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 0.0971 | 0.0927 | 0.0929 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 4.64 | 20.0 | |
| BC03533 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0918 | 0.0921 | 0.0926 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.326 | 20.0 | |
| BC03538 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0910 | 0.0905 | 0.0918 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.551 | 20.0 | |
| BC03955 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.993 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03538 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 0.953 | 0.981 | 0.982 | 0.850 to 1.15 | 95.3 | 70.0 to 130 | 2.90 | 20.0 | |
| BC03533 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0963 | 0.0999 | 0.0985 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 3.67 | 20.0 | |
| BC03538 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.100 | 0.0993 | 0.0980 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.702 | 20.0 | |
| BC03955 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 14.2 | 14.3 | 4.84 | 4.25 to 5.75 | 97.0 | 70.0 to 130 | 0.702 | 20.0 | |
| BC03538 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 4.83 | 4.82 | 4.84 | 4.25 to 5.75 | 96.6 | 70.0 to 130 | 0.207 | 20.0 | |
| BC03533 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0977 | 0.0962 | 0.0973 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 1.55 | 20.0 | |
| BC03538 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.100 | 0.0964 | 0.0974 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.67 | 20.0 | |
| BC03533 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0984 | 0.0964 | 0.101 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 2.05 | 20.0 | |
| BC03538 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.102 | 0.0984 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.59 | 20.0 | |
| BC03955 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.408 | 0.408 | 0.203 | 0.170 to 0.230 | 98.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03538 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 0.192 | 0.196 | 0.196 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 2.06 | 20.0 | |
| BC03533 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0976 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.103 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 12:25

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-40H

Laboratory ID Number: BC03533

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | Standard | | Rec | | Prec | Limit | |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------|-------------|------|-------|------|
| | | | | Limit | Spike | | | | Limit | Prec | Limit | Prec | | | |
| BC03538 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0978 | 0.0972 | 0.0976 | 0.0850 to 0.115 | | 97.8 | 70.0 to 130 | | 0.615 | 20.0 |
| BC03955 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.237 | 0.233 | 0.198 | 0.170 to 0.230 | | 99.6 | 70.0 to 130 | | 1.70 | 20.0 |
| BC03538 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.199 | 0.208 | 0.205 | 0.170 to 0.230 | | 99.5 | 70.0 to 130 | | 4.42 | 20.0 |
| BC03955 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 8.93 | 8.82 | 5.11 | 4.25 to 5.75 | | 102 | 70.0 to 130 | | 1.24 | 20.0 |
| BC03538 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 5.08 | 5.21 | 5.15 | 4.25 to 5.75 | | 102 | 70.0 to 130 | | 2.53 | 20.0 |
| BC03533 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.432 | 0.438 | 0.0944 | 0.0850 to 0.115 | | 91.0 | 70.0 to 130 | | 1.38 | 20.0 |
| BC03538 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.0991 | 0.0951 | 0.0963 | 0.0850 to 0.115 | | 98.9 | 70.0 to 130 | | 4.12 | 20.0 |
| BC03538 | Mercury, Total by CVAA | mg/L | -0.0001 | 0.000500 | 0.004 | 0.00385 | 0.00387 | 0.00385 | 0.00340 to 0.00460 | | 96.2 | 70.0 to 130 | | 0.518 | 20.0 |
| BC03533 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.0976 | 0.0982 | 0.0967 | 0.0850 to 0.115 | | 96.3 | 70.0 to 130 | | 0.613 | 20.0 |
| BC03538 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0972 | 0.0983 | 0.0950 | 0.0850 to 0.115 | | 97.2 | 70.0 to 130 | | 1.13 | 20.0 |
| BC03533 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 14.1 | 13.9 | 9.81 | 8.50 to 11.5 | | 97.4 | 70.0 to 130 | | 1.43 | 20.0 |
| BC03538 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 9.90 | 9.73 | 9.86 | 8.50 to 11.5 | | 99.0 | 70.0 to 130 | | 1.73 | 20.0 |
| BC03533 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.101 | 0.101 | 0.100 | 0.0850 to 0.115 | | 101 | 70.0 to 130 | | 0.00 | 20.0 |
| BC03538 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0981 | 0.0991 | 0.101 | 0.0850 to 0.115 | | 98.1 | 70.0 to 130 | | 1.01 | 20.0 |
| BC03955 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 8.40 | 8.39 | 1.02 | 0.850 to 1.15 | | 93.0 | 70.0 to 130 | | 0.119 | 20.0 |
| BC03538 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 0.991 | 1.01 | 1.01 | 0.850 to 1.15 | | 99.1 | 70.0 to 130 | | 1.90 | 20.0 |
| BC03955 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 164 | 173 | 5.09 | 4.25 to 5.75 | | 60.0 | 70.0 to 130 | | 5.34 | 20.0 |
| BC03538 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 4.92 | 5.19 | 5.12 | 4.25 to 5.75 | | 98.4 | 70.0 to 130 | | 5.34 | 20.0 |
| BC03533 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0970 | 0.0974 | 0.0982 | 0.0850 to 0.115 | | 97.0 | 70.0 to 130 | | 0.412 | 20.0 |
| BC03538 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0974 | 0.0964 | 0.0973 | 0.0850 to 0.115 | | 97.4 | 70.0 to 130 | | 1.03 | 20.0 |
| BC03953 | Total Organic Carbon | mg/L | 0.230 | 1.00 | 10.0 | 14.7 | 14.3 | 9.69 | | | 94.9 | 80.0 to 120 | | 2.76 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 12:25

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-40H

Laboratory ID Number: BC03533

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03537 | Alkalinity, Total as CaCO3 | mg/L | | | | | 179 | 52.0 | 45.0 to 55.0 | | | 5.16 | 10.0 |
| BC03538 | Chloride | mg/L | -0.0395 | 1.00 | 10.0 | 9.83 | 0.130 | 10.2 | 9.00 to 11.0 | 98.3 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Fluoride | mg/L | -0.0461 | 0.125 | 2.50 | 2.53 | -0.0425 | 2.57 | 2.25 to 2.75 | 101 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.72 | -0.028 | 1.84 | 1.80 to 2.20 | 86.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03535 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 772 | 51.0 | 40.0 to 60.0 | | | 0.259 | 10.0 |
| BC03538 | Sulfate | mg/L | -0.140 | 2.0 | 20.0 | 19.5 | -0.0892 | 19.8 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-26H

Location Code: WMWGORAP
Collected: 2/15/22 14:13
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03534

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:25 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:25 | | 1.015 | 26.6 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:25 | | 1.015 | 0.958 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:25 | | 1.015 | 0.0917 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:25 | | 1.015 | 11.7 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:25 | | 1 | 23.1 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:25 | | 1.015 | 10.8 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:17 | | 20.3 | 64.7 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:26 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:26 | | 1.015 | 26.6 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:26 | | 1.015 | 0.901 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:26 | | 1.015 | 0.0830 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:26 | | 1.015 | 11.5 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:26 | | 1 | 22.7 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:26 | | 1.015 | 10.6 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:24 | | 20.3 | 70.3 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | 0.0162 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | 0.000254 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | 0.726 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | 0.000306 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | 0.0185 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | 0.0000684 | mg/L | 0.000068 | 0.000203 | J | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | 2.48 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The sample was originally analyzed in hold time for TDS. Upon data review, an analytical error was discovered. The sample was rerun in a separate batch out of hold time with no sample duplicate.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-26H

Location Code: WMWGORAP

Collected: 2/15/22 14:13

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03534

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|----|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 15:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | 0.000351 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | 0.732 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | 0.0168 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | 0.000110 | mg/L | 0.000068 | 0.000203 | J |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | 2.45 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 13:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 20:48 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:58 | 2/21/22 13:58 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 269 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/23/22 10:15 | 2/24/22 13:25 | | 1 | 273 | mg/L | | 25 | HT |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 265 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 3.52 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/1/22 14:14 | 3/1/22 14:14 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The sample was originally analyzed in hold time for TDS. Upon data review, an analytical error was discovered. The sample was rerun in a separate batch out of hold time with no sample duplicate.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-26H

Location Code: WMWGORAP
Collected: 2/15/22 14:13
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03534

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:36 | 2/18/22 14:36 | | 1 | 2.59 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:39 | 2/23/22 09:39 | | 1 | 0.101 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:26 | 2/22/22 12:26 | | 1 | 7.16 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/15/22 14:09 | 2/15/22 14:09 | | | 485.80 | uS/cm | | | FA |
| pH | 2/15/22 14:09 | 2/15/22 14:09 | | | 6.82 | SU | | | FA |
| Temperature | 2/15/22 14:09 | 2/15/22 14:09 | | | 19.45 | C | | | FA |
| Turbidity | 2/15/22 14:09 | 2/15/22 14:09 | | | 1.88 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The sample was originally analyzed in hold time for TDS. Upon data review, an analytical error was discovered. The sample was rerun in a separate batch out of hold time with no sample duplicate.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 14:13

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: BC03534

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03537 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.106 | 0.101 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 4.83 | 20.0 | |
| BC03538 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 | |
| BC03537 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0914 | 0.0895 | 0.0864 | 0.0850 to 0.115 | 91.4 | 70.0 to 130 | 2.10 | 20.0 | |
| BC03538 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.0977 | 0.0933 | 0.0949 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 4.61 | 20.0 | |
| BC03537 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.0984 | 0.0963 | 0.0970 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 2.16 | 20.0 | |
| BC03538 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0996 | 0.0996 | 0.0968 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03537 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.616 | 0.610 | 0.0936 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.979 | 20.0 | |
| BC03538 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 0.0971 | 0.0927 | 0.0929 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 4.64 | 20.0 | |
| BC03537 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0922 | 0.0924 | 0.0926 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 0.217 | 20.0 | |
| BC03538 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0910 | 0.0905 | 0.0918 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.551 | 20.0 | |
| BC03955 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.993 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03538 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 0.953 | 0.981 | 0.982 | 0.850 to 1.15 | 95.3 | 70.0 to 130 | 2.90 | 20.0 | |
| BC03537 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0965 | 0.0952 | 0.0985 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.36 | 20.0 | |
| BC03538 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.100 | 0.0993 | 0.0980 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.702 | 20.0 | |
| BC03955 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 14.2 | 14.3 | 4.84 | 4.25 to 5.75 | 97.0 | 70.0 to 130 | 0.702 | 20.0 | |
| BC03538 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 4.83 | 4.82 | 4.84 | 4.25 to 5.75 | 96.6 | 70.0 to 130 | 0.207 | 20.0 | |
| BC03537 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0967 | 0.0928 | 0.0973 | 0.0850 to 0.115 | 96.7 | 70.0 to 130 | 4.12 | 20.0 | |
| BC03538 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.100 | 0.0964 | 0.0974 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.67 | 20.0 | |
| BC03537 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0976 | 0.0956 | 0.101 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 2.07 | 20.0 | |
| BC03538 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.102 | 0.0984 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.59 | 20.0 | |
| BC03955 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.408 | 0.408 | 0.203 | 0.170 to 0.230 | 98.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03538 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 0.192 | 0.196 | 0.196 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 2.06 | 20.0 | |
| BC03537 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0958 | 0.0953 | 0.0983 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.523 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The sample was originally analyzed in hold time for TDS. Upon data review, an analytical error was discovered. The sample was rerun in a separate batch out of hold time with no sample duplicate.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 14:13

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: BC03534

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03538 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0978 | 0.0972 | 0.0976 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.615 | 20.0 |
| BC03955 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.237 | 0.233 | 0.198 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.70 | 20.0 |
| BC03538 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.199 | 0.208 | 0.205 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 4.42 | 20.0 |
| BC03955 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 8.93 | 8.82 | 5.11 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.24 | 20.0 |
| BC03538 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 5.08 | 5.21 | 5.15 | 4.25 to 5.75 | 102 | 70.0 to 130 | 2.53 | 20.0 |
| BC03537 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.238 | 0.230 | 0.0944 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.42 | 20.0 |
| BC03538 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.0991 | 0.0951 | 0.0963 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 4.12 | 20.0 |
| BC03538 | Mercury, Total by CVAA | mg/L | -0.0001 | 0.000500 | 0.004 | 0.00385 | 0.00387 | 0.00385 | 0.00340 to 0.00460 | 96.2 | 70.0 to 130 | 0.518 | 20.0 |
| BC03537 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.0967 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03538 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0972 | 0.0983 | 0.0950 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.13 | 20.0 |
| BC03537 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 11.0 | 10.6 | 9.81 | 8.50 to 11.5 | 98.2 | 70.0 to 130 | 3.70 | 20.0 |
| BC03538 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 9.90 | 9.73 | 9.86 | 8.50 to 11.5 | 99.0 | 70.0 to 130 | 1.73 | 20.0 |
| BC03537 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.0985 | 0.0988 | 0.100 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.304 | 20.0 |
| BC03538 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0981 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.01 | 20.0 |
| BC03955 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 8.40 | 8.39 | 1.02 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03538 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 0.991 | 1.01 | 1.01 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 1.90 | 20.0 |
| BC03955 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 164 | 173 | 5.09 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 5.34 | 20.0 |
| BC03538 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 4.92 | 5.19 | 5.12 | 4.25 to 5.75 | 98.4 | 70.0 to 130 | 5.34 | 20.0 |
| BC03537 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0946 | 0.0936 | 0.0982 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 1.06 | 20.0 |
| BC03538 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0974 | 0.0964 | 0.0973 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 1.03 | 20.0 |
| BC03953 | Total Organic Carbon | mg/L | 0.230 | 1.00 | 10.0 | 14.7 | 14.3 | 9.69 | | 94.9 | 80.0 to 120 | 2.76 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The sample was originally analyzed in hold time for TDS. Upon data review, an analytical error was discovered. The sample was rerun in a separate batch out of hold time with no sample duplicate.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/15/22 14:13

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: BC03534

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03537 | Alkalinity, Total as CaCO3 | mg/L | | | | | 179 | 52.0 | 45.0 to 55.0 | | | 5.16 | 10.0 |
| BC03538 | Chloride | mg/L | -0.0395 | 1.00 | 10.0 | 9.83 | 0.130 | 10.2 | 9.00 to 11.0 | 98.3 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Fluoride | mg/L | -0.0461 | 0.125 | 2.50 | 2.53 | -0.0425 | 2.57 | 2.25 to 2.75 | 101 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.72 | -0.028 | 1.84 | 1.80 to 2.20 | 86.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03535 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 772 | 51.0 | 40.0 to 60.0 | | | 0.259 | 10.0 |
| BC03534 | Solids, Dissolved | mg/L | 0 | 25.0 | | | | 50 | 40.0 to 60.0 | | | | 10.0 |
| BC03538 | Sulfate | mg/L | -0.140 | 2.0 | 20.0 | 19.5 | -0.0892 | 19.8 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. The sample was originally analyzed in hold time for TDS. Upon data review, an analytical error was discovered. The sample was rerun in a separate batch out of hold time with no sample duplicate.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-42H

Location Code: WMWGORAP
Collected: 2/16/22 10:43
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03535

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:27 | | 1.015 | 0.0502 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 12:19 | | 20.3 | 138 | mg/L | 1.4007 | 8.12 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 12:19 | | 20.3 | 4.27 | mg/L | 0.1624 | 0.812 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:27 | | 1.015 | 0.0313 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 12:19 | | 20.3 | 51.3 | mg/L | 0.4263 | 8.12 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:27 | | 1 | 22.7 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:27 | | 1.015 | 10.6 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 10:27 | | 1.015 | 32.6 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:28 | | 1.015 | 0.0505 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 12:26 | | 20.3 | 145 | mg/L | 1.4007 | 8.12 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 12:26 | | 20.3 | 4.42 | mg/L | 0.1624 | 0.812 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:28 | | 1.015 | 0.0305 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 12:26 | | 20.3 | 56.1 | mg/L | 0.4263 | 8.12 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:28 | | 1 | 22.5 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:28 | | 1.015 | 10.5 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 09:28 | | 1.015 | 31.9 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | 0.00846 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | 0.0226 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U | |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | 0.000453 | mg/L | 0.000068 | 0.000203 | | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | 0.931 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | 0.00155 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | 2.00 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-42H

Location Code: WMWGORAP
Collected: 2/16/22 10:43
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03535

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | 0.00762 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | 0.0214 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | 0.000464 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | 0.944 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | 0.00177 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | 2.13 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 13:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 20:52 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 13:59 | 2/21/22 13:59 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 196 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 774 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 195 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 1.36 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/1/22 14:33 | 3/1/22 14:33 | | 1 | 1.13 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-42H

Location Code: WMWGORAP

Collected: 2/16/22 10:43

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03535

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:38 | 2/18/22 14:38 | | 1 | 8.61 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:40 | 2/23/22 09:40 | | 1 | 0.0837 | mg/L | 0.06 | 0.1 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:38 | 2/22/22 12:38 | | 25 | 396 | mg/L | 12.50 | 25 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/16/22 10:38 | 2/16/22 10:38 | | | 1038.72 | uS/cm | | | FA |
| pH | 2/16/22 10:38 | 2/16/22 10:38 | | | 6.54 | SU | | | FA |
| Temperature | 2/16/22 10:38 | 2/16/22 10:38 | | | 18.59 | C | | | FA |
| Turbidity | 2/16/22 10:38 | 2/16/22 10:38 | | | 4.98 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 10:43

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-42H

Laboratory ID Number: BC03535

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03537 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.106 | 0.101 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 4.83 | 20.0 | |
| BC03538 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 | |
| BC03537 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0914 | 0.0895 | 0.0864 | 0.0850 to 0.115 | 91.4 | 70.0 to 130 | 2.10 | 20.0 | |
| BC03538 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.0977 | 0.0933 | 0.0949 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 4.61 | 20.0 | |
| BC03537 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.0984 | 0.0963 | 0.0970 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 2.16 | 20.0 | |
| BC03538 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0996 | 0.0996 | 0.0968 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03537 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.616 | 0.610 | 0.0936 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.979 | 20.0 | |
| BC03538 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 0.0971 | 0.0927 | 0.0929 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 4.64 | 20.0 | |
| BC03537 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0922 | 0.0924 | 0.0926 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 0.217 | 20.0 | |
| BC03538 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0910 | 0.0905 | 0.0918 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.551 | 20.0 | |
| BC03955 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.993 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03538 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 0.953 | 0.981 | 0.982 | 0.850 to 1.15 | 95.3 | 70.0 to 130 | 2.90 | 20.0 | |
| BC03537 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0965 | 0.0952 | 0.0985 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.36 | 20.0 | |
| BC03538 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.100 | 0.0993 | 0.0980 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.702 | 20.0 | |
| BC03955 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 14.2 | 14.3 | 4.84 | 4.25 to 5.75 | 97.0 | 70.0 to 130 | 0.702 | 20.0 | |
| BC03538 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 4.83 | 4.82 | 4.84 | 4.25 to 5.75 | 96.6 | 70.0 to 130 | 0.207 | 20.0 | |
| BC03537 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0967 | 0.0928 | 0.0973 | 0.0850 to 0.115 | 96.7 | 70.0 to 130 | 4.12 | 20.0 | |
| BC03538 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.100 | 0.0964 | 0.0974 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.67 | 20.0 | |
| BC03537 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0976 | 0.0956 | 0.101 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 2.07 | 20.0 | |
| BC03538 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.102 | 0.0984 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.59 | 20.0 | |
| BC03955 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.408 | 0.408 | 0.203 | 0.170 to 0.230 | 98.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03538 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 0.192 | 0.196 | 0.196 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 2.06 | 20.0 | |
| BC03537 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0958 | 0.0953 | 0.0983 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.523 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 10:43

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-42H

Laboratory ID Number: BC03535

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|------|-------|
| | | | | Limit | Spike | | | | Limit | Rec | Limit | Prec | | |
| BC03538 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0978 | 0.0972 | 0.0976 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.615 | 20.0 | |
| BC03955 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.237 | 0.233 | 0.198 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.70 | 20.0 | |
| BC03538 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.199 | 0.208 | 0.205 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 4.42 | 20.0 | |
| BC03955 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 8.93 | 8.82 | 5.11 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.24 | 20.0 | |
| BC03538 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 5.08 | 5.21 | 5.15 | 4.25 to 5.75 | 102 | 70.0 to 130 | 2.53 | 20.0 | |
| BC03537 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.238 | 0.230 | 0.0944 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.42 | 20.0 | |
| BC03538 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.0991 | 0.0951 | 0.0963 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 4.12 | 20.0 | |
| BC03538 | Mercury, Total by CVAA | mg/L | -0.0001 | 0.000500 | 0.004 | 0.00385 | 0.00387 | 0.00385 | 0.00340 to 0.00460 | 96.2 | 70.0 to 130 | 0.518 | 20.0 | |
| BC03537 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.0967 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03538 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0972 | 0.0983 | 0.0950 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.13 | 20.0 | |
| BC03537 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 11.0 | 10.6 | 9.81 | 8.50 to 11.5 | 98.2 | 70.0 to 130 | 3.70 | 20.0 | |
| BC03538 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 9.90 | 9.73 | 9.86 | 8.50 to 11.5 | 99.0 | 70.0 to 130 | 1.73 | 20.0 | |
| BC03537 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.0985 | 0.0988 | 0.100 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.304 | 20.0 | |
| BC03538 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0981 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.01 | 20.0 | |
| BC03955 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 8.40 | 8.39 | 1.02 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.119 | 20.0 | |
| BC03538 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 0.991 | 1.01 | 1.01 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 1.90 | 20.0 | |
| BC03955 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 164 | 173 | 5.09 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 5.34 | 20.0 | |
| BC03538 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 4.92 | 5.19 | 5.12 | 4.25 to 5.75 | 98.4 | 70.0 to 130 | 5.34 | 20.0 | |
| BC03537 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0946 | 0.0936 | 0.0982 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 1.06 | 20.0 | |
| BC03538 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0974 | 0.0964 | 0.0973 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 1.03 | 20.0 | |
| BC03953 | Total Organic Carbon | mg/L | 0.230 | 1.00 | 10.0 | 14.7 | 14.3 | 9.69 | | 94.9 | 80.0 to 120 | 2.76 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 10:43

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-42H

Laboratory ID Number: BC03535

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03537 | Alkalinity, Total as CaCO3 | mg/L | | | | | 179 | 52.0 | 45.0 to 55.0 | | | 5.16 | 10.0 |
| BC03538 | Chloride | mg/L | -0.0395 | 1.00 | 10.0 | 9.83 | 0.130 | 10.2 | 9.00 to 11.0 | 98.3 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Fluoride | mg/L | -0.0461 | 0.125 | 2.50 | 2.53 | -0.0425 | 2.57 | 2.25 to 2.75 | 101 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.72 | -0.028 | 1.84 | 1.80 to 2.20 | 86.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03535 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 772 | 51.0 | 40.0 to 60.0 | | | 0.259 | 10.0 |
| BC03538 | Sulfate | mg/L | -0.140 | 2.0 | 20.0 | 19.5 | -0.0892 | 19.8 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-8

Location Code: WMWGORAP
Collected: 2/16/22 12:14
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03536

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:29 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:29 | | 1.015 | 4.42 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:29 | | 1.015 | 0.329 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:29 | | 1.015 | 0.00826 | mg/L | 0.007105 | 0.01999956 | J | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:29 | | 1.015 | 7.75 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:29 | | 1 | 37.2 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:29 | | 1.015 | 17.4 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 10:29 | | 1.015 | 11.4 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:30 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:30 | | 1.015 | 4.38 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:30 | | 1.015 | 0.0342 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:30 | | 1.015 | 0.00763 | mg/L | 0.007105 | 0.01999956 | J | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:30 | | 1.015 | 7.19 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:30 | | 1 | 36.4 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:30 | | 1.015 | 17.0 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 09:30 | | 1.015 | 10.7 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | 0.0413 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | 0.000278 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | 0.00763 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | 0.000396 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | 0.000548 | mg/L | 0.000068 | 0.000203 | | |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | 0.0911 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | 0.000118 | mg/L | 0.000068 | 0.000203 | J | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | 0.781 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-8

Location Code: WMWGORAP
Collected: 2/16/22 12:14
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03536

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 15:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | 0.000208 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | 0.00853 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | 0.000239 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | 0.000639 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | 0.123 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | 0.000117 | mg/L | 0.000068 | 0.000203 | J |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | 0.752 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 13:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 20:56 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 14:00 | 2/21/22 14:00 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 59.8 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/18/22 11:13 | 2/22/22 12:58 | | 1 | 90.7 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 59.8 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 0.01 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/1/22 14:52 | 3/1/22 14:52 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-8

Location Code: WMWGORAP

Collected: 2/16/22 12:14

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03536

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:39 | 2/18/22 14:39 | | 1 | 4.42 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:41 | 2/23/22 09:41 | | 1 | 0.0616 | mg/L | 0.06 | 0.1 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:28 | 2/22/22 12:28 | | 1 | 4.68 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/16/22 12:10 | 2/16/22 12:10 | | | 142.90 | uS/cm | | | FA |
| pH | 2/16/22 12:10 | 2/16/22 12:10 | | | 5.80 | SU | | | FA |
| Temperature | 2/16/22 12:10 | 2/16/22 12:10 | | | 19.92 | C | | | FA |
| Turbidity | 2/16/22 12:10 | 2/16/22 12:10 | | | 2.6 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/16/22 12:14
Customer ID:
Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: BC03536

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | |
| BC03537 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.106 | 0.101 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 4.83 | 20.0 |
| BC03538 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03537 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0914 | 0.0895 | 0.0864 | 0.0850 to 0.115 | 91.4 | 70.0 to 130 | 2.10 | 20.0 |
| BC03538 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.0977 | 0.0933 | 0.0949 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 4.61 | 20.0 |
| BC03537 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.0984 | 0.0963 | 0.0970 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 2.16 | 20.0 |
| BC03538 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0996 | 0.0996 | 0.0968 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03537 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.616 | 0.610 | 0.0936 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.979 | 20.0 |
| BC03538 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 0.0971 | 0.0927 | 0.0929 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 4.64 | 20.0 |
| BC03537 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0922 | 0.0924 | 0.0926 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC03538 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0910 | 0.0905 | 0.0918 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.551 | 20.0 |
| BC03955 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.993 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03538 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 0.953 | 0.981 | 0.982 | 0.850 to 1.15 | 95.3 | 70.0 to 130 | 2.90 | 20.0 |
| BC03537 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0965 | 0.0952 | 0.0985 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.36 | 20.0 |
| BC03538 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.100 | 0.0993 | 0.0980 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.702 | 20.0 |
| BC03955 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 14.2 | 14.3 | 4.84 | 4.25 to 5.75 | 97.0 | 70.0 to 130 | 0.702 | 20.0 |
| BC03538 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 4.83 | 4.82 | 4.84 | 4.25 to 5.75 | 96.6 | 70.0 to 130 | 0.207 | 20.0 |
| BC03537 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0967 | 0.0928 | 0.0973 | 0.0850 to 0.115 | 96.7 | 70.0 to 130 | 4.12 | 20.0 |
| BC03538 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.100 | 0.0964 | 0.0974 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.67 | 20.0 |
| BC03537 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0976 | 0.0956 | 0.101 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 2.07 | 20.0 |
| BC03538 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.102 | 0.0984 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.59 | 20.0 |
| BC03955 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.408 | 0.408 | 0.203 | 0.170 to 0.230 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03538 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 0.192 | 0.196 | 0.196 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 2.06 | 20.0 |
| BC03537 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0958 | 0.0953 | 0.0983 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.523 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 12:14

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: BC03536

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|------|-------|
| | | | | Limit | Spike | | | | Limit | Rec | Limit | Prec | | |
| BC03538 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0978 | 0.0972 | 0.0976 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.615 | 20.0 | |
| BC03955 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.237 | 0.233 | 0.198 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.70 | 20.0 | |
| BC03538 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.199 | 0.208 | 0.205 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 4.42 | 20.0 | |
| BC03955 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 8.93 | 8.82 | 5.11 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.24 | 20.0 | |
| BC03538 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 5.08 | 5.21 | 5.15 | 4.25 to 5.75 | 102 | 70.0 to 130 | 2.53 | 20.0 | |
| BC03537 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.238 | 0.230 | 0.0944 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.42 | 20.0 | |
| BC03538 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.0991 | 0.0951 | 0.0963 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 4.12 | 20.0 | |
| BC03538 | Mercury, Total by CVAA | mg/L | -0.0001 | 0.000500 | 0.004 | 0.00385 | 0.00387 | 0.00385 | 0.00340 to 0.00460 | 96.2 | 70.0 to 130 | 0.518 | 20.0 | |
| BC03537 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.0967 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03538 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0972 | 0.0983 | 0.0950 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.13 | 20.0 | |
| BC03537 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 11.0 | 10.6 | 9.81 | 8.50 to 11.5 | 98.2 | 70.0 to 130 | 3.70 | 20.0 | |
| BC03538 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 9.90 | 9.73 | 9.86 | 8.50 to 11.5 | 99.0 | 70.0 to 130 | 1.73 | 20.0 | |
| BC03537 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.0985 | 0.0988 | 0.100 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.304 | 20.0 | |
| BC03538 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0981 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.01 | 20.0 | |
| BC03955 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 8.40 | 8.39 | 1.02 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.119 | 20.0 | |
| BC03538 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 0.991 | 1.01 | 1.01 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 1.90 | 20.0 | |
| BC03955 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 164 | 173 | 5.09 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 5.34 | 20.0 | |
| BC03538 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 4.92 | 5.19 | 5.12 | 4.25 to 5.75 | 98.4 | 70.0 to 130 | 5.34 | 20.0 | |
| BC03537 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0946 | 0.0936 | 0.0982 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 1.06 | 20.0 | |
| BC03538 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0974 | 0.0964 | 0.0973 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 1.03 | 20.0 | |
| BC03953 | Total Organic Carbon | mg/L | 0.230 | 1.00 | 10.0 | 14.7 | 14.3 | 9.69 | | 94.9 | 80.0 to 120 | 2.76 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 12:14

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: BC03536

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03537 | Alkalinity, Total as CaCO3 | mg/L | | | | | 179 | 52.0 | 45.0 to 55.0 | | | 5.16 | 10.0 |
| BC03538 | Chloride | mg/L | -0.0395 | 1.00 | 10.0 | 9.83 | 0.130 | 10.2 | 9.00 to 11.0 | 98.3 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Fluoride | mg/L | -0.0461 | 0.125 | 2.50 | 2.53 | -0.0425 | 2.57 | 2.25 to 2.75 | 101 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.72 | -0.028 | 1.84 | 1.80 to 2.20 | 86.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03535 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 772 | 51.0 | 40.0 to 60.0 | | | 0.259 | 10.0 |
| BC03538 | Sulfate | mg/L | -0.140 | 2.0 | 20.0 | 19.5 | -0.0892 | 19.8 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-3

Location Code: WMWGORAP
Collected: 2/16/22 14:57
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03537

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:31 | | 1.015 | 0.311 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:31 | | 1.015 | 18.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:31 | | 1.015 | 2.15 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:31 | | 1.015 | 0.0732 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:31 | | 1.015 | 8.21 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:31 | | 1 | 11.9 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:31 | | 1.015 | 5.55 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:20 | | 20.3 | 80.8 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:32 | | 1.015 | 0.364 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:32 | | 1.015 | 22.9 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:32 | | 1.015 | 2.98 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:32 | | 1.015 | 0.0734 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:32 | | 1.015 | 9.91 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:32 | | 1 | 12.0 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:32 | | 1.015 | 5.62 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:28 | | 20.3 | 87.1 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | 0.0229 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | 0.000202 | mg/L | 0.000068 | 0.000203 | J |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | 0.498 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | 0.000267 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | 0.108 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | 0.00722 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | 1.11 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-3

Location Code: WMWGORAP

Collected: 2/16/22 14:57

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03537

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 15:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | 0.000182 | mg/L | 0.000068 | 0.000203 | J |
| * Barium, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | 0.525 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | 0.140 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | 0.00832 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | 1.18 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/21/22 13:48 | 2/22/22 13:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 21:00 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 14:01 | 2/21/22 14:01 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 170 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/23/22 10:15 | 2/24/22 13:25 | | 1 | 307 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 168 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/28/22 13:10 | 2/28/22 15:05 | | 1 | 1.90 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/1/22 15:11 | 3/1/22 15:11 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-3

Location Code: WMWGORAP

Collected: 2/16/22 14:57

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03537

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:34 | 2/18/22 14:34 | | 1 | 14.0 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:43 | 2/23/22 09:43 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:35 | 2/22/22 12:35 | | 4 | 91.2 | mg/L | 2.00 | 4 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/16/22 14:53 | 2/16/22 14:53 | | | 482.31 | uS/cm | | | FA |
| pH | 2/16/22 14:53 | 2/16/22 14:53 | | | 7.78 | SU | | | FA |
| Temperature | 2/16/22 14:53 | 2/16/22 14:53 | | | 18.66 | C | | | FA |
| Turbidity | 2/16/22 14:53 | 2/16/22 14:53 | | | 1.12 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/16/22 14:57
Customer ID:
Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-3

Laboratory ID Number: BC03537

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | |
| BC03537 | Aluminum, Dissolved | mg/L | -0.000418 | 0.010 | 0.100 | 0.106 | 0.101 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 4.83 | 20.0 |
| BC03538 | Aluminum, Total | mg/L | -0.0000505 | 0.010 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03537 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0914 | 0.0895 | 0.0864 | 0.0850 to 0.115 | 91.4 | 70.0 to 130 | 2.10 | 20.0 |
| BC03538 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.0977 | 0.0933 | 0.0949 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 4.61 | 20.0 |
| BC03537 | Arsenic, Dissolved | mg/L | -0.0000097 | 0.000176 | 0.100 | 0.0984 | 0.0963 | 0.0970 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 2.16 | 20.0 |
| BC03538 | Arsenic, Total | mg/L | 0.0000492 | 0.000176 | 0.100 | 0.0996 | 0.0996 | 0.0968 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03537 | Barium, Dissolved | mg/L | -0.0000002 | 0.000200 | 0.100 | 0.616 | 0.610 | 0.0936 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.979 | 20.0 |
| BC03538 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 0.0971 | 0.0927 | 0.0929 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 4.64 | 20.0 |
| BC03537 | Beryllium, Dissolved | mg/L | 0.000421 | 0.000880 | 0.100 | 0.0922 | 0.0924 | 0.0926 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC03538 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0910 | 0.0905 | 0.0918 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.551 | 20.0 |
| BC03955 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.993 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03538 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 0.953 | 0.981 | 0.982 | 0.850 to 1.15 | 95.3 | 70.0 to 130 | 2.90 | 20.0 |
| BC03537 | Cadmium, Dissolved | mg/L | 0.0000501 | 0.000147 | 0.100 | 0.0965 | 0.0952 | 0.0985 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.36 | 20.0 |
| BC03538 | Cadmium, Total | mg/L | 0.00000 | 0.000147 | 0.100 | 0.100 | 0.0993 | 0.0980 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.702 | 20.0 |
| BC03955 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 14.2 | 14.3 | 4.84 | 4.25 to 5.75 | 97.0 | 70.0 to 130 | 0.702 | 20.0 |
| BC03538 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 4.83 | 4.82 | 4.84 | 4.25 to 5.75 | 96.6 | 70.0 to 130 | 0.207 | 20.0 |
| BC03537 | Chromium, Dissolved | mg/L | 0.0000613 | 0.000440 | 0.100 | 0.0967 | 0.0928 | 0.0973 | 0.0850 to 0.115 | 96.7 | 70.0 to 130 | 4.12 | 20.0 |
| BC03538 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.100 | 0.0964 | 0.0974 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.67 | 20.0 |
| BC03537 | Cobalt, Dissolved | mg/L | 0.0000361 | 0.000147 | 0.100 | 0.0976 | 0.0956 | 0.101 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 2.07 | 20.0 |
| BC03538 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.102 | 0.0984 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.59 | 20.0 |
| BC03955 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.408 | 0.408 | 0.203 | 0.170 to 0.230 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03538 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 0.192 | 0.196 | 0.196 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 2.06 | 20.0 |
| BC03537 | Lead, Dissolved | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.0958 | 0.0953 | 0.0983 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 0.523 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 14:57

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-3

Laboratory ID Number: BC03537

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03538 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0978 | 0.0972 | 0.0976 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.615 | 20.0 |
| BC03955 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.237 | 0.233 | 0.198 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.70 | 20.0 |
| BC03538 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.199 | 0.208 | 0.205 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 4.42 | 20.0 |
| BC03955 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 8.93 | 8.82 | 5.11 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.24 | 20.0 |
| BC03538 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 5.08 | 5.21 | 5.15 | 4.25 to 5.75 | 102 | 70.0 to 130 | 2.53 | 20.0 |
| BC03537 | Manganese, Dissolved | mg/L | 0.000143 | 0.0002 | 0.100 | 0.238 | 0.230 | 0.0944 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.42 | 20.0 |
| BC03538 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.0991 | 0.0951 | 0.0963 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 4.12 | 20.0 |
| BC03538 | Mercury, Total by CVAA | mg/L | -0.0001 | 0.000500 | 0.004 | 0.00385 | 0.00387 | 0.00385 | 0.00340 to 0.00460 | 96.2 | 70.0 to 130 | 0.518 | 20.0 |
| BC03537 | Molybdenum, Dissolved | mg/L | 0.0000787 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.0967 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC03538 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0972 | 0.0983 | 0.0950 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.13 | 20.0 |
| BC03537 | Potassium, Dissolved | mg/L | 0.00741 | 0.367 | 10.0 | 11.0 | 10.6 | 9.81 | 8.50 to 11.5 | 98.2 | 70.0 to 130 | 3.70 | 20.0 |
| BC03538 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 9.90 | 9.73 | 9.86 | 8.50 to 11.5 | 99.0 | 70.0 to 130 | 1.73 | 20.0 |
| BC03537 | Selenium, Dissolved | mg/L | 0.0000615 | 0.00100 | 0.100 | 0.0985 | 0.0988 | 0.100 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.304 | 20.0 |
| BC03538 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0981 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.01 | 20.0 |
| BC03955 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 8.40 | 8.39 | 1.02 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03538 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 0.991 | 1.01 | 1.01 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 1.90 | 20.0 |
| BC03955 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 164 | 173 | 5.09 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 5.34 | 20.0 |
| BC03538 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 4.92 | 5.19 | 5.12 | 4.25 to 5.75 | 98.4 | 70.0 to 130 | 5.34 | 20.0 |
| BC03537 | Thallium, Dissolved | mg/L | 0.000002 | 0.000147 | 0.100 | 0.0946 | 0.0936 | 0.0982 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 1.06 | 20.0 |
| BC03538 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0974 | 0.0964 | 0.0973 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 1.03 | 20.0 |
| BC03953 | Total Organic Carbon | mg/L | 0.230 | 1.00 | 10.0 | 14.7 | 14.3 | 9.69 | | 94.9 | 80.0 to 120 | 2.76 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/16/22 14:57

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond - MW-3

Laboratory ID Number: BC03537

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03537 | Alkalinity, Total as CaCO3 | mg/L | | | | | 179 | 52.0 | 45.0 to 55.0 | | | 5.16 | 10.0 |
| BC03538 | Chloride | mg/L | -0.0395 | 1.00 | 10.0 | 9.83 | 0.130 | 10.2 | 9.00 to 11.0 | 98.3 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Fluoride | mg/L | -0.0461 | 0.125 | 2.50 | 2.53 | -0.0425 | 2.57 | 2.25 to 2.75 | 101 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.72 | -0.028 | 1.84 | 1.80 to 2.20 | 86.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03537 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 310 | 50.0 | 40.0 to 60.0 | | | 0.972 | 10.0 |
| BC03538 | Sulfate | mg/L | -0.140 | 2.0 | 20.0 | 19.5 | -0.0892 | 19.8 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB
Collected: 2/16/22 15:50
Customer ID:
Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03538

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:33 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:33 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:33 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:33 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:33 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:33 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:33 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 10:33 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | 0.0000722 | mg/L | 0.000068 | 0.000203 | J |
| * Barium, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Beryllium, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | 0.000180 | mg/L | 0.000068 | 0.000203 | J |
| * Molybdenum, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Potassium, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/21/22 13:30 | 2/22/22 15:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: CRB | | | | | | |
| * Mercury, Total by CVAA | 2/24/22 14:29 | 2/24/22 21:04 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: ELH | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/21/22 14:02 | 2/21/22 14:02 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 2/23/22 10:15 | 2/24/22 13:25 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Nitrate/Nitrite MS recovery was outside the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB

Collected: 2/16/22 15:50

Customer ID:

Submittal Date: 2/17/22 10:42

Laboratory ID Number: BC03538

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/1/22 15:27 | 3/1/22 15:27 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/18/22 14:40 | 2/18/22 14:40 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/23/22 09:44 | 2/23/22 09:44 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/22/22 12:29 | 2/22/22 12:29 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Nitrate/Nitrite MS recovery was outside the specification limit.

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/16/22 15:50

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC03538

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03538 | Aluminum, Total | mg/L | -0.000505 | 0.010 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03538 | Antimony, Total | mg/L | 0.000365 | 0.00100 | 0.100 | 0.0977 | 0.0933 | 0.0949 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 4.61 | 20.0 |
| BC03538 | Arsenic, Total | mg/L | 0.000492 | 0.000176 | 0.100 | 0.0996 | 0.0996 | 0.0968 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03538 | Barium, Total | mg/L | -0.000019 | 0.000200 | 0.100 | 0.0971 | 0.0927 | 0.0929 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 4.64 | 20.0 |
| BC03538 | Beryllium, Total | mg/L | 0.000497 | 0.000880 | 0.100 | 0.0910 | 0.0905 | 0.0918 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.551 | 20.0 |
| BC03538 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 0.953 | 0.981 | 0.982 | 0.850 to 1.15 | 95.3 | 70.0 to 130 | 2.90 | 20.0 |
| BC03538 | Cadmium, Total | mg/L | 0.000000 | 0.000147 | 0.100 | 0.100 | 0.0993 | 0.0980 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.702 | 20.0 |
| BC03538 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 4.83 | 4.82 | 4.84 | 4.25 to 5.75 | 96.6 | 70.0 to 130 | 0.207 | 20.0 |
| BC03538 | Chromium, Total | mg/L | -0.0000265 | 0.000440 | 0.100 | 0.100 | 0.0964 | 0.0974 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.67 | 20.0 |
| BC03538 | Cobalt, Total | mg/L | 0.0000375 | 0.000147 | 0.100 | 0.102 | 0.0984 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.59 | 20.0 |
| BC03538 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 0.192 | 0.196 | 0.196 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 2.06 | 20.0 |
| BC03538 | Lead, Total | mg/L | 0.0000054 | 0.000147 | 0.100 | 0.0978 | 0.0972 | 0.0976 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.615 | 20.0 |
| BC03538 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.199 | 0.208 | 0.205 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 4.42 | 20.0 |
| BC03538 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 5.08 | 5.21 | 5.15 | 4.25 to 5.75 | 102 | 70.0 to 130 | 2.53 | 20.0 |
| BC03538 | Manganese, Total | mg/L | 0.0000091 | 0.0002 | 0.100 | 0.0991 | 0.0951 | 0.0963 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 4.12 | 20.0 |
| BC03538 | Mercury, Total by CVAA | mg/L | -0.0001 | 0.000500 | 0.004 | 0.00385 | 0.00387 | 0.00385 | 0.00340 to 0.00460 | 96.2 | 70.0 to 130 | 0.518 | 20.0 |
| BC03538 | Molybdenum, Total | mg/L | 0.0000235 | 0.0002 | 0.100 | 0.0972 | 0.0983 | 0.0950 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.13 | 20.0 |
| BC03538 | Potassium, Total | mg/L | -0.0236 | 0.367 | 10.0 | 9.90 | 9.73 | 9.86 | 8.50 to 11.5 | 99.0 | 70.0 to 130 | 1.73 | 20.0 |
| BC03538 | Selenium, Total | mg/L | -0.000021 | 0.00100 | 0.100 | 0.0981 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.01 | 20.0 |
| BC03538 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 0.991 | 1.01 | 1.01 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 1.90 | 20.0 |
| BC03538 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 4.92 | 5.19 | 5.12 | 4.25 to 5.75 | 98.4 | 70.0 to 130 | 5.34 | 20.0 |
| BC03538 | Thallium, Total | mg/L | 0.0000069 | 0.000147 | 0.100 | 0.0974 | 0.0964 | 0.0973 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 1.03 | 20.0 |
| BC03953 | Total Organic Carbon | mg/L | 0.230 | 1.00 | 10.0 | 14.7 | 14.3 | 9.69 | | 94.9 | 80.0 to 120 | 2.76 | 20.0 |

Comments: Nitrate/Nitrite MS recovery was outside the specification limit.

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/16/22 15:50

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC03538

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | MSD | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|

Comments: Nitrate/Nitrite MS recovery was outside the specification limit.

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/16/22 15:50

Customer ID:

Delivery Date: 2/17/22 10:42

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC03538

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03538 | Chloride | mg/L | -0.0395 | 1.00 | 10.0 | 9.83 | 0.130 | 10.2 | 9.00 to 11.0 | 98.3 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Fluoride | mg/L | -0.0461 | 0.125 | 2.50 | 2.53 | -0.0425 | 2.57 | 2.25 to 2.75 | 101 | 80.0 to 120 | 0.00 | 20.0 |
| BC03538 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.02 | 0.200 | 2.00 | 1.72 | -0.028 | 1.84 | 1.80 to 2.20 | 86.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03537 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 310 | 50.0 | 40.0 to 60.0 | | | 0.972 | 10.0 |
| BC03538 | Sulfate | mg/L | -0.140 | 2.0 | 20.0 | 19.5 | -0.0892 | 19.8 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.00 | 20.0 |

Comments: Nitrate/Nitrite MS recovery was outside the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-43H

Location Code: WMWGORAP
Collected: 2/21/22 11:43
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03953

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 12:28 | | 1.015 | 0.130 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 12:28 | | 1.015 | 4.56 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 12:28 | | 1.015 | 0.0282 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 12:28 | | 1.015 | 0.0579 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 12:28 | | 1.015 | 1.19 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 12:28 | | 1 | 11.9 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 12:28 | | 1.015 | 5.55 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:30 | | 20.3 | 321 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:34 | | 1.015 | 0.130 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:34 | | 1.015 | 4.09 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:34 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:34 | | 1.015 | 0.0580 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:34 | | 1.015 | 1.16 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:34 | | 1 | 11.7 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:34 | | 1.015 | 5.49 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:30 | | 20.3 | 363 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | 0.0878 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | 0.000889 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | 0.0849 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | 0.000272 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | 0.000116 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | 0.00801 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | 0.00309 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | 3.43 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-43H

Location Code: WMWGORAP

Collected: 2/21/22 11:43

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03953

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | 0.0266 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | 0.000960 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | 0.0825 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | 0.000206 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | 0.00649 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | 0.00320 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | 3.26 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 11:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 20:41 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:13 | 2/25/22 12:13 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 347 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 894 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 332 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 14.6 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/1/22 15:41 | 3/1/22 15:41 | | 1 | 5.21 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-43H

Location Code: WMWGORAP

Collected: 2/21/22 11:43

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03953

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 14:40 | 2/24/22 14:40 | | 10 | 104 | mg/L | 5.00 | 10 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 09:41 | 2/25/22 09:41 | | 1 | 0.226 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 09:38 | 3/2/22 09:38 | | 20 | 347 | mg/L | 10.00 | 20 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/21/22 11:40 | 2/21/22 11:40 | | | 1416.64 | uS/cm | | | FA |
| pH | 2/21/22 11:40 | 2/21/22 11:40 | | | 8.58 | SU | | | FA |
| Temperature | 2/21/22 11:40 | 2/21/22 11:40 | | | 13.34 | C | | | FA |
| Turbidity | 2/21/22 11:40 | 2/21/22 11:40 | | | 3.34 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/21/22 11:43

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-43H

Laboratory ID Number: BC03953

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03963 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.102 | 0.104 | 0.0988 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03962 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.132 | 0.138 | 0.0983 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 4.44 | 20.0 | |
| BC03963 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0922 | 0.0933 | 0.0893 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 1.19 | 20.0 | |
| BC03962 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0997 | 0.102 | 0.0926 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 2.28 | 20.0 | |
| BC03963 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.104 | 0.104 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03962 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0993 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03963 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.271 | 0.274 | 0.0960 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.10 | 20.0 | |
| BC03962 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.148 | 0.145 | 0.0959 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 2.05 | 20.0 | |
| BC03963 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0940 | 0.101 | 0.0920 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 7.18 | 20.0 | |
| BC03962 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 | |
| BC03955 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.993 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03962 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 1.10 | 1.11 | 0.982 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.905 | 20.0 | |
| BC03963 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.100 | 0.0996 | 0.0986 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.401 | 20.0 | |
| BC03962 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0998 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.62 | 20.0 | |
| BC03955 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 14.2 | 14.3 | 4.84 | 4.25 to 5.75 | 97.0 | 70.0 to 130 | 0.702 | 20.0 | |
| BC03962 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 14.3 | 14.4 | 4.84 | 4.25 to 5.75 | 91.4 | 70.0 to 130 | 0.697 | 20.0 | |
| BC03963 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.0985 | 0.0998 | 0.0994 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.31 | 20.0 | |
| BC03962 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0958 | 0.0994 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 0.418 | 20.0 | |
| BC03963 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 | |
| BC03962 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0973 | 0.0987 | 0.102 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.43 | 20.0 | |
| BC03955 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.408 | 0.408 | 0.203 | 0.170 to 0.230 | 98.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03962 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 1.35 | 1.36 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.738 | 20.0 | |
| BC03963 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.100 | 0.104 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/21/22 11:43

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-43H

Laboratory ID Number: BC03953

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03962 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.106 | 0.105 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC03955 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.237 | 0.233 | 0.198 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.70 | 20.0 |
| BC03962 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.252 | 0.253 | 0.205 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.396 | 20.0 |
| BC03955 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 8.93 | 8.82 | 5.11 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.24 | 20.0 |
| BC03962 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 8.44 | 8.54 | 5.15 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 1.18 | 20.0 |
| BC03963 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.137 | 0.140 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.17 | 20.0 |
| BC03962 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.148 | 0.150 | 0.101 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 1.34 | 20.0 |
| BC03962 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00391 | 0.00393 | 0.00393 | 0.00340 to 0.00460 | 97.8 | 70.0 to 130 | 0.510 | 20.0 |
| BC03963 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.0982 | 0.0983 | 0.0995 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.102 | 20.0 |
| BC03962 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.115 | 0.115 | 0.0997 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 13.2 | 13.3 | 9.90 | 8.50 to 11.5 | 99.3 | 70.0 to 130 | 0.755 | 20.0 |
| BC03962 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 34.5 | 35.0 | 9.89 | 8.50 to 11.5 | 90.0 | 70.0 to 130 | 1.44 | 20.0 |
| BC03963 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.0471 | 0.0512 | 0.100 | 0.0850 to 0.115 | 47.1 | 70.0 to 130 | 8.34 | 20.0 |
| BC03962 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0986 | 0.0979 | 0.102 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 0.712 | 20.0 |
| BC03955 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 8.40 | 8.39 | 1.02 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03962 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 7.96 | 8.05 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC03955 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 164 | 173 | 5.09 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 5.34 | 20.0 |
| BC03962 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 334 | 327 | 5.12 | 4.25 to 5.75 | 300 | 70.0 to 130 | 2.12 | 20.0 |
| BC03963 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03962 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC03953 | Total Organic Carbon | mg/L | 0.230 | 1.00 | 10.0 | 14.7 | 14.3 | 9.69 | | 94.9 | 80.0 to 120 | 2.76 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/21/22 11:43

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-43H

Laboratory ID Number: BC03953

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|------|---------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03962 | Chloride | mg/L | -0.0767 | 1.00 | 250 | 414 | 160 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 3.17 | 20.0 |
| BC03962 | Fluoride | mg/L | 0.0147 | 0.125 | 2.50 | 2.84 | 0.249 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 3.27 | 20.0 |
| BC03962 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.05 | 0.200 | 2.00 | 2.12 | -0.040 | 1.86 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC03962 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 1030 | 51.0 | 40.0 to 60.0 | | | 1.92 | 10.0 |
| BC03962 | Sulfate | mg/L | 0.0558 | 2.0 | 400 | 830 | 376 | 20.6 | 18.0 to 22.0 | 115 | 80.0 to 120 | 1.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-18R

Location Code: WMWGORAP
Collected: 2/21/22 14:40
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03954

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:44 | | 1.015 | 0.0925 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 12:32 | | 20.3 | 69.0 | mg/L | 1.4007 | 8.12 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:44 | | 1.015 | 0.699 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:44 | | 1.015 | 0.0157 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:44 | | 1.015 | 18.8 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:44 | | 1 | 23.8 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:44 | | 1.015 | 11.1 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 10:44 | | 1.015 | 18.0 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:36 | | 1.015 | 0.0922 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 12:31 | | 20.3 | 69.0 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:36 | | 1.015 | 0.681 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:36 | | 1.015 | 0.0158 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:36 | | 1.015 | 18.8 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:36 | | 1 | 23.5 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:36 | | 1.015 | 11.0 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 09:36 | | 1.015 | 18.0 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | 0.00937 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | 0.00167 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | 0.0662 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | 0.000262 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | 0.000136 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | 0.0605 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | 0.000910 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | 1.22 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-18R

Location Code: WMWGORAP

Collected: 2/21/22 14:40

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03954

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | 0.00156 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | 0.0659 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | 0.000129 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | 0.0609 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | 0.000935 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | 1.21 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 20:45 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:15 | 2/25/22 12:15 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 226 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 303 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 225 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 0.50 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/1/22 16:31 | 3/1/22 16:31 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-18R

Location Code: WMWGORAP

Collected: 2/21/22 14:40

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03954

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 14:41 | 2/24/22 14:41 | | 1 | 5.32 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 09:42 | 2/25/22 09:42 | | 1 | 0.207 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 09:30 | 3/2/22 09:30 | | 2 | 55.5 | mg/L | 1.00 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/21/22 14:37 | 2/21/22 14:37 | | | 483.33 | uS/cm | | | FA |
| pH | 2/21/22 14:37 | 2/21/22 14:37 | | | 7.37 | SU | | | FA |
| Temperature | 2/21/22 14:37 | 2/21/22 14:37 | | | 15.22 | C | | | FA |
| Turbidity | 2/21/22 14:37 | 2/21/22 14:37 | | | 1.64 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/21/22 14:40

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - PZ-18R

Laboratory ID Number: BC03954

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03963 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.102 | 0.104 | 0.0988 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03962 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.132 | 0.138 | 0.0983 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 4.44 | 20.0 | |
| BC03963 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0922 | 0.0933 | 0.0893 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 1.19 | 20.0 | |
| BC03962 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0997 | 0.102 | 0.0926 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 2.28 | 20.0 | |
| BC03963 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.104 | 0.104 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03962 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0993 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03963 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.271 | 0.274 | 0.0960 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.10 | 20.0 | |
| BC03962 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.148 | 0.145 | 0.0959 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 2.05 | 20.0 | |
| BC03963 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0940 | 0.101 | 0.0920 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 7.18 | 20.0 | |
| BC03962 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 | |
| BC03955 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.993 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03962 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 1.10 | 1.11 | 0.982 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.905 | 20.0 | |
| BC03963 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.100 | 0.0996 | 0.0986 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.401 | 20.0 | |
| BC03962 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0998 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.62 | 20.0 | |
| BC03955 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 14.2 | 14.3 | 4.84 | 4.25 to 5.75 | 97.0 | 70.0 to 130 | 0.702 | 20.0 | |
| BC03962 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 14.3 | 14.4 | 4.84 | 4.25 to 5.75 | 91.4 | 70.0 to 130 | 0.697 | 20.0 | |
| BC03963 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.0985 | 0.0998 | 0.0994 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.31 | 20.0 | |
| BC03962 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0958 | 0.0994 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 0.418 | 20.0 | |
| BC03963 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 | |
| BC03962 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0973 | 0.0987 | 0.102 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.43 | 20.0 | |
| BC03955 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.408 | 0.408 | 0.203 | 0.170 to 0.230 | 98.0 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03962 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 1.35 | 1.36 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.738 | 20.0 | |
| BC03963 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.100 | 0.104 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/21/22 14:40

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - PZ-18R

Laboratory ID Number: BC03954

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03962 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.106 | 0.105 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC03955 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.237 | 0.233 | 0.198 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.70 | 20.0 |
| BC03962 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.252 | 0.253 | 0.205 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.396 | 20.0 |
| BC03955 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 8.93 | 8.82 | 5.11 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.24 | 20.0 |
| BC03962 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 8.44 | 8.54 | 5.15 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 1.18 | 20.0 |
| BC03963 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.137 | 0.140 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.17 | 20.0 |
| BC03962 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.148 | 0.150 | 0.101 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 1.34 | 20.0 |
| BC03962 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00391 | 0.00393 | 0.00393 | 0.00340 to 0.00460 | 97.8 | 70.0 to 130 | 0.510 | 20.0 |
| BC03963 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.0982 | 0.0983 | 0.0995 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.102 | 20.0 |
| BC03962 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.115 | 0.115 | 0.0997 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 13.2 | 13.3 | 9.90 | 8.50 to 11.5 | 99.3 | 70.0 to 130 | 0.755 | 20.0 |
| BC03962 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 34.5 | 35.0 | 9.89 | 8.50 to 11.5 | 90.0 | 70.0 to 130 | 1.44 | 20.0 |
| BC03963 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.0471 | 0.0512 | 0.100 | 0.0850 to 0.115 | 47.1 | 70.0 to 130 | 8.34 | 20.0 |
| BC03962 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0986 | 0.0979 | 0.102 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 0.712 | 20.0 |
| BC03955 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 8.40 | 8.39 | 1.02 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03962 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 7.96 | 8.05 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC03955 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 164 | 173 | 5.09 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 5.34 | 20.0 |
| BC03962 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 334 | 327 | 5.12 | 4.25 to 5.75 | 300 | 70.0 to 130 | 2.12 | 20.0 |
| BC03963 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03962 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC03953 | Total Organic Carbon | mg/L | 0.230 | 1.00 | 10.0 | 14.7 | 14.3 | 9.69 | | 94.9 | 80.0 to 120 | 2.76 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/21/22 14:40

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - PZ-18R

Laboratory ID Number: BC03954

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03962 | Chloride | mg/L | -0.0767 | 1.00 | 250 | 414 | 160 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 3.17 | 20.0 |
| BC03962 | Fluoride | mg/L | 0.0147 | 0.125 | 2.50 | 2.84 | 0.249 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 3.27 | 20.0 |
| BC03962 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.05 | 0.200 | 2.00 | 2.12 | -0.040 | 1.86 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC03962 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 1030 | 51.0 | 40.0 to 60.0 | | | 1.92 | 10.0 |
| BC03962 | Sulfate | mg/L | 0.0558 | 2.0 | 400 | 830 | 376 | 20.6 | 18.0 to 22.0 | 115 | 80.0 to 120 | 1.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36V

Location Code: WMWGORAP
Collected: 2/22/22 10:06
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03955

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:46 | | 1.015 | 0.0402 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:46 | | 1.015 | 9.42 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:46 | | 1.015 | 0.216 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:46 | | 1.015 | 0.0383 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:46 | | 1.015 | 3.84 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:46 | | 1 | 16.3 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:46 | | 1.015 | 7.60 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:34 | | 20.3 | 153 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:38 | | 1.015 | 0.0400 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:38 | | 1.015 | 9.35 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:38 | | 1.015 | 0.212 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:38 | | 1.015 | 0.0379 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:38 | | 1.015 | 3.84 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:38 | | 1 | 16.0 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:38 | | 1.015 | 7.47 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:33 | | 20.3 | 161 | mg/L | 0.609 | 8.12 | RA |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | 0.0129 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | 0.00167 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | 0.0920 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | 0.000248 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | 0.000091 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | 0.000160 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | 0.0460 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | 0.00427 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | 12.0 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36V

Location Code: WMWGORAP
Collected: 2/22/22 10:06
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03955

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | 0.00480 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | 0.00160 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | 0.0910 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | 0.000258 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | 0.0000835 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | 0.0477 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | 0.00467 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | 13.0 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 20:49 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:17 | 2/25/22 12:17 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 274 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 438 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 272 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 1.73 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/2/22 08:16 | 3/2/22 08:16 | | 1 | 3.21 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36V

Location Code: WMWGORAP

Collected: 2/22/22 10:06

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03955

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 14:43 | 2/24/22 14:43 | | 8 | 55.9 | mg/L | 4.00 | 8 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 09:44 | 2/25/22 09:44 | | 1 | 0.259 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 09:31 | 3/2/22 09:31 | | 2 | 53.9 | mg/L | 1.00 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/22/22 10:03 | 2/22/22 10:03 | | | 812.78 | uS/cm | | | FA |
| pH | 2/22/22 10:03 | 2/22/22 10:03 | | | 7.35 | SU | | | FA |
| Temperature | 2/22/22 10:03 | 2/22/22 10:03 | | | 17.26 | C | | | FA |
| Turbidity | 2/22/22 10:03 | 2/22/22 10:03 | | | 2.6 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 10:06

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-36V

Laboratory ID Number: BC03955

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03963 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.102 | 0.104 | 0.0988 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03962 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.132 | 0.138 | 0.0983 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 4.44 | 20.0 |
| BC03963 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0922 | 0.0933 | 0.0893 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 1.19 | 20.0 |
| BC03962 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0997 | 0.102 | 0.0926 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 2.28 | 20.0 |
| BC03963 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.104 | 0.104 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0993 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.271 | 0.274 | 0.0960 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.10 | 20.0 |
| BC03962 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.148 | 0.145 | 0.0959 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 2.05 | 20.0 |
| BC03963 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0940 | 0.101 | 0.0920 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 7.18 | 20.0 |
| BC03962 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03955 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.993 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 1.10 | 1.11 | 0.982 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.905 | 20.0 |
| BC03963 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.100 | 0.0996 | 0.0986 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03962 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0998 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.62 | 20.0 |
| BC03955 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 14.2 | 14.3 | 4.84 | 4.25 to 5.75 | 97.0 | 70.0 to 130 | 0.702 | 20.0 |
| BC03962 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 14.3 | 14.4 | 4.84 | 4.25 to 5.75 | 91.4 | 70.0 to 130 | 0.697 | 20.0 |
| BC03963 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.0985 | 0.0998 | 0.0994 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.31 | 20.0 |
| BC03962 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0958 | 0.0994 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 0.418 | 20.0 |
| BC03963 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03962 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0973 | 0.0987 | 0.102 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.43 | 20.0 |
| BC03955 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.408 | 0.408 | 0.203 | 0.170 to 0.230 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 1.35 | 1.36 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.738 | 20.0 |
| BC03963 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.100 | 0.104 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 10:06

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-36V

Laboratory ID Number: BC03955

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03962 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.106 | 0.105 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC03955 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.237 | 0.233 | 0.198 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 1.70 | 20.0 |
| BC03962 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.252 | 0.253 | 0.205 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.396 | 20.0 |
| BC03955 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 8.93 | 8.82 | 5.11 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.24 | 20.0 |
| BC03962 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 8.44 | 8.54 | 5.15 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 1.18 | 20.0 |
| BC03963 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.137 | 0.140 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.17 | 20.0 |
| BC03962 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.148 | 0.150 | 0.101 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 1.34 | 20.0 |
| BC03962 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00391 | 0.00393 | 0.00393 | 0.00340 to 0.00460 | 97.8 | 70.0 to 130 | 0.510 | 20.0 |
| BC03963 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.0982 | 0.0983 | 0.0995 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.102 | 20.0 |
| BC03962 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.115 | 0.115 | 0.0997 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 13.2 | 13.3 | 9.90 | 8.50 to 11.5 | 99.3 | 70.0 to 130 | 0.755 | 20.0 |
| BC03962 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 34.5 | 35.0 | 9.89 | 8.50 to 11.5 | 90.0 | 70.0 to 130 | 1.44 | 20.0 |
| BC03963 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.0471 | 0.0512 | 0.100 | 0.0850 to 0.115 | 47.1 | 70.0 to 130 | 8.34 | 20.0 |
| BC03962 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0986 | 0.0979 | 0.102 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 0.712 | 20.0 |
| BC03955 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 8.40 | 8.39 | 1.02 | 0.850 to 1.15 | 93.0 | 70.0 to 130 | 0.119 | 20.0 |
| BC03962 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 7.96 | 8.05 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC03955 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 164 | 173 | 5.09 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 5.34 | 20.0 |
| BC03962 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 334 | 327 | 5.12 | 4.25 to 5.75 | 300 | 70.0 to 130 | 2.12 | 20.0 |
| BC03963 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03962 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC03963 | Total Organic Carbon | mg/L | 0.200 | 1.00 | 10.0 | 10.3 | 9.80 | 9.01 | | 86.0 | 80.0 to 120 | 4.98 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 10:06

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-36V

Laboratory ID Number: BC03955

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03962 | Chloride | mg/L | -0.0767 | 1.00 | 250 | 414 | 160 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 3.17 | 20.0 |
| BC03962 | Fluoride | mg/L | 0.0147 | 0.125 | 2.50 | 2.84 | 0.249 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 3.27 | 20.0 |
| BC03962 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.05 | 0.200 | 2.00 | 2.12 | -0.040 | 1.86 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC03962 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 1030 | 51.0 | 40.0 to 60.0 | | | 1.92 | 10.0 |
| BC03962 | Sulfate | mg/L | 0.0558 | 2.0 | 400 | 830 | 376 | 20.6 | 18.0 to 22.0 | 115 | 80.0 to 120 | 1.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-27HR

Location Code: WMWGORAP
Collected: 2/22/22 12:03
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03956

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:48 | | 1.015 | 0.0541 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:48 | | 1.015 | 12.3 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:48 | | 1.015 | 0.0619 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:48 | | 1.015 | 0.0420 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:48 | | 1.015 | 2.96 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:48 | | 1 | 14.2 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:48 | | 1.015 | 6.65 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:35 | | 20.3 | 363 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:51 | | 1.015 | 0.0519 | mg/L | 0.029557 | 0.1 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:51 | | 1.015 | 11.7 | mg/L | 0.069 | 0.4 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:51 | | 1.015 | 0.0158 | mg/L | 0.008 | 0.04 | J |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:51 | | 1.015 | 0.0416 | mg/L | 0.007 | 0.019704 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:51 | | 1.015 | 2.81 | mg/L | 0.021 | 0.4 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:51 | | 1 | 13.8 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:51 | | 1.015 | 6.47 | mg/L | 0.02 | 0.25 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 11:54 | | 20.3 | 360 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | 0.000530 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | 0.0691 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | 0.00102 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | 0.0414 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | 0.000288 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | 0.0491 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | 0.000829 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | 2.68 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-27HR

Location Code: WMWGORAP

Collected: 2/22/22 12:03

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03956

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | 0.0170 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | 0.000968 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | 0.0427 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | 0.000207 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | 0.0470 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | 0.000802 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | 2.62 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:08 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 20:53 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:19 | 2/25/22 12:19 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 290 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 1100 | mg/L | | 100 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 287 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 2.76 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/2/22 08:32 | 3/2/22 08:32 | | 1 | 12.5 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-27HR

Location Code: WMWGORAP
Collected: 2/22/22 12:03
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03956

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 14:44 | 2/24/22 14:44 | | 16 | 253 | mg/L | 8.00 | 16 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 09:45 | 2/25/22 09:45 | | 1 | 0.292 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 09:32 | 3/2/22 09:32 | | 16 | 268 | mg/L | 8.00 | 16 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/22/22 12:00 | 2/22/22 12:00 | | | 2186.31 | uS/cm | | | FA |
| pH | 2/22/22 12:00 | 2/22/22 12:00 | | | 7.83 | SU | | | FA |
| Temperature | 2/22/22 12:00 | 2/22/22 12:00 | | | 17.13 | C | | | FA |
| Turbidity | 2/22/22 12:00 | 2/22/22 12:00 | | | 2.34 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 12:03

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-27HR

Laboratory ID Number: BC03956

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03963 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.102 | 0.104 | 0.0988 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03962 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.132 | 0.138 | 0.0983 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 4.44 | 20.0 |
| BC03963 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0922 | 0.0933 | 0.0893 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 1.19 | 20.0 |
| BC03962 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0997 | 0.102 | 0.0926 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 2.28 | 20.0 |
| BC03963 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.104 | 0.104 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0993 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.271 | 0.274 | 0.0960 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.10 | 20.0 |
| BC03962 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.148 | 0.145 | 0.0959 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 2.05 | 20.0 |
| BC03963 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0940 | 0.101 | 0.0920 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 7.18 | 20.0 |
| BC03962 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03966 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.02 | 1.03 | 0.993 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC03962 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 1.10 | 1.11 | 0.982 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.905 | 20.0 |
| BC03963 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.100 | 0.0996 | 0.0986 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03962 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0998 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.62 | 20.0 |
| BC03966 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 62.6 | 60.2 | 4.84 | 4.25 to 5.75 | 182 | 70.0 to 130 | 3.91 | 20.0 |
| BC03962 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 14.3 | 14.4 | 4.84 | 4.25 to 5.75 | 91.4 | 70.0 to 130 | 0.697 | 20.0 |
| BC03963 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.0985 | 0.0998 | 0.0994 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.31 | 20.0 |
| BC03962 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0958 | 0.0994 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 0.418 | 20.0 |
| BC03963 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03962 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0973 | 0.0987 | 0.102 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.43 | 20.0 |
| BC03966 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.639 | 0.633 | 0.203 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.943 | 20.0 |
| BC03962 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 1.35 | 1.36 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.738 | 20.0 |
| BC03963 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.100 | 0.104 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 12:03

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-27HR

Laboratory ID Number: BC03956

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03962 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.106 | 0.105 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC03966 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.224 | 0.222 | 0.198 | 0.170 to 0.230 | 99.1 | 70.0 to 130 | 0.897 | 20.0 |
| BC03962 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.252 | 0.253 | 0.205 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.396 | 20.0 |
| BC03966 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 21.6 | 21.3 | 5.11 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.40 | 20.0 |
| BC03962 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 8.44 | 8.54 | 5.15 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 1.18 | 20.0 |
| BC03963 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.137 | 0.140 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.17 | 20.0 |
| BC03962 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.148 | 0.150 | 0.101 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 1.34 | 20.0 |
| BC03962 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00391 | 0.00393 | 0.00393 | 0.00340 to 0.00460 | 97.8 | 70.0 to 130 | 0.510 | 20.0 |
| BC03963 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.0982 | 0.0983 | 0.0995 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.102 | 20.0 |
| BC03962 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.115 | 0.115 | 0.0997 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 13.2 | 13.3 | 9.90 | 8.50 to 11.5 | 99.3 | 70.0 to 130 | 0.755 | 20.0 |
| BC03962 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 34.5 | 35.0 | 9.89 | 8.50 to 11.5 | 90.0 | 70.0 to 130 | 1.44 | 20.0 |
| BC03963 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.0471 | 0.0512 | 0.100 | 0.0850 to 0.115 | 47.1 | 70.0 to 130 | 8.34 | 20.0 |
| BC03962 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0986 | 0.0979 | 0.102 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 0.712 | 20.0 |
| BC03966 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 10.9 | 10.9 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 7.96 | 8.05 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC03966 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 50.9 | 49.0 | 5.09 | 4.25 to 5.75 | 154 | 70.0 to 130 | 3.80 | 20.0 |
| BC03962 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 334 | 327 | 5.12 | 4.25 to 5.75 | 300 | 70.0 to 130 | 2.12 | 20.0 |
| BC03963 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03962 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC03963 | Total Organic Carbon | mg/L | 0.200 | 1.00 | 10.0 | 10.3 | 9.80 | 9.01 | | 86.0 | 80.0 to 120 | 4.98 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 12:03

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-27HR

Laboratory ID Number: BC03956

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03962 | Chloride | mg/L | -0.0767 | 1.00 | 250 | 414 | 160 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 3.17 | 20.0 |
| BC03962 | Fluoride | mg/L | 0.0147 | 0.125 | 2.50 | 2.84 | 0.249 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 3.27 | 20.0 |
| BC03962 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.05 | 0.200 | 2.00 | 2.12 | -0.040 | 1.86 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC03962 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 1030 | 51.0 | 40.0 to 60.0 | | | 1.92 | 10.0 |
| BC03962 | Sulfate | mg/L | 0.0558 | 2.0 | 400 | 830 | 376 | 20.6 | 18.0 to 22.0 | 115 | 80.0 to 120 | 1.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-6

Location Code: WMWGORAPFB
Collected: 2/22/22 12:40
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03957

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:50 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:50 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:50 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:50 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:50 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:50 | | 1 | Not Detected | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:50 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 10:50 | | 1.015 | 0.0318 | mg/L | 0.03045 | 0.406 | J | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U | |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U | |
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 20:57 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U | |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:21 | 2/25/22 12:21 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | Not Detected | mg/L | | 25 | U | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-6

Location Code: WMWGORAPFB

Collected: 2/22/22 12:40

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03957

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/2/22 08:50 | 3/2/22 08:50 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 14:45 | 2/24/22 14:45 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 09:46 | 2/25/22 09:46 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 09:14 | 3/2/22 09:14 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/22/22 12:40

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond Field Blank-6

Laboratory ID Number: BC03957

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03962 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.132 | 0.138 | 0.0983 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 4.44 | 20.0 |
| BC03962 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0997 | 0.102 | 0.0926 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 2.28 | 20.0 |
| BC03962 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0993 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.148 | 0.145 | 0.0959 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 2.05 | 20.0 |
| BC03962 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03962 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 1.10 | 1.11 | 0.982 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.905 | 20.0 |
| BC03962 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0998 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.62 | 20.0 |
| BC03962 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 14.3 | 14.4 | 4.84 | 4.25 to 5.75 | 91.4 | 70.0 to 130 | 0.697 | 20.0 |
| BC03962 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0958 | 0.0994 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 0.418 | 20.0 |
| BC03962 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0973 | 0.0987 | 0.102 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.43 | 20.0 |
| BC03962 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 1.35 | 1.36 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.738 | 20.0 |
| BC03962 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.106 | 0.105 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC03962 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.252 | 0.253 | 0.205 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.396 | 20.0 |
| BC03962 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 8.44 | 8.54 | 5.15 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 1.18 | 20.0 |
| BC03962 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.148 | 0.150 | 0.101 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 1.34 | 20.0 |
| BC03962 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00391 | 0.00393 | 0.00393 | 0.00340 to 0.00460 | 97.8 | 70.0 to 130 | 0.510 | 20.0 |
| BC03962 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.115 | 0.115 | 0.0997 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 34.5 | 35.0 | 9.89 | 8.50 to 11.5 | 90.0 | 70.0 to 130 | 1.44 | 20.0 |
| BC03962 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0986 | 0.0979 | 0.102 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 0.712 | 20.0 |
| BC03962 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 7.96 | 8.05 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC03962 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 334 | 327 | 5.12 | 4.25 to 5.75 | 300 | 70.0 to 130 | 2.12 | 20.0 |
| BC03962 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC03963 | Total Organic Carbon | mg/L | 0.200 | 1.00 | 10.0 | 10.3 | 9.80 | 9.01 | | 86.0 | 80.0 to 120 | 4.98 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/22/22 12:40

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond Field Blank-6

Laboratory ID Number: BC03957

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | MSD | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/22/22 12:40

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond Field Blank-6

Laboratory ID Number: BC03957

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|------|---------------|
| BC03962 | Chloride | mg/L | -0.0767 | 1.00 | 250 | 414 | 160 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 3.17 | 20.0 |
| BC03962 | Fluoride | mg/L | 0.0147 | 0.125 | 2.50 | 2.84 | 0.249 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 3.27 | 20.0 |
| BC03962 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.05 | 0.200 | 2.00 | 2.12 | -0.040 | 1.86 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC03962 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 1030 | 51.0 | 40.0 to 60.0 | | | 1.92 | 10.0 |
| BC03962 | Sulfate | mg/L | 0.0558 | 2.0 | 400 | 830 | 376 | 20.6 | 18.0 to 22.0 | 115 | 80.0 to 120 | 1.61 | 20.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R

Location Code: WMWGORAP
Collected: 2/22/22 13:42
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03958

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:52 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:52 | | 1.015 | 20.3 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:52 | | 1.015 | 3.96 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:52 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:52 | | 1.015 | 5.30 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:52 | | 1 | 22.5 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:52 | | 1.015 | 10.5 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 10:52 | | 1.015 | 11.7 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:53 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:53 | | 1.015 | 20.7 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:53 | | 1.015 | 3.90 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:53 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:53 | | 1.015 | 5.30 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:53 | | 1 | 21.8 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:53 | | 1.015 | 10.2 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 09:53 | | 1.015 | 11.6 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | 0.105 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | 0.000367 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | 0.0716 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | 0.000221 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | 0.000659 | mg/L | 0.000068 | 0.000203 | | |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | 0.0000809 | mg/L | 0.000068 | 0.000203 | J | |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | 0.160 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | 0.000283 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | 0.864 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R

Location Code: WMWGORAP
Collected: 2/22/22 13:42
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03958

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | 0.000307 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | 0.0717 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | 0.000671 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | 0.164 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | 0.000225 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | 0.863 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:01 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:23 | 2/25/22 12:23 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 79.7 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 136 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 79.7 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 0.05 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/2/22 09:06 | 3/2/22 09:06 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R

Location Code: WMWGORAP
Collected: 2/22/22 13:42
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03958

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 14:46 | 2/24/22 14:46 | | 1 | 3.52 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 09:47 | 2/25/22 09:47 | | 1 | 0.124 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 09:16 | 3/2/22 09:16 | | 1 | 27.0 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/22/22 13:39 | 2/22/22 13:39 | | | 198.06 | uS/cm | | | FA |
| pH | 2/22/22 13:39 | 2/22/22 13:39 | | | 6.29 | SU | | | FA |
| Temperature | 2/22/22 13:39 | 2/22/22 13:39 | | | 17.31 | C | | | FA |
| Turbidity | 2/22/22 13:39 | 2/22/22 13:39 | | | 4.74 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:42

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-18R

Laboratory ID Number: BC03958

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03963 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.102 | 0.104 | 0.0988 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03962 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.132 | 0.138 | 0.0983 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 4.44 | 20.0 |
| BC03963 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0922 | 0.0933 | 0.0893 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 1.19 | 20.0 |
| BC03962 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0997 | 0.102 | 0.0926 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 2.28 | 20.0 |
| BC03963 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.104 | 0.104 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0993 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.271 | 0.274 | 0.0960 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.10 | 20.0 |
| BC03962 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.148 | 0.145 | 0.0959 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 2.05 | 20.0 |
| BC03963 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0940 | 0.101 | 0.0920 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 7.18 | 20.0 |
| BC03962 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03966 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.02 | 1.03 | 0.993 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC03962 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 1.10 | 1.11 | 0.982 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.905 | 20.0 |
| BC03963 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.100 | 0.0996 | 0.0986 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03962 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0998 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.62 | 20.0 |
| BC03966 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 62.6 | 60.2 | 4.84 | 4.25 to 5.75 | 182 | 70.0 to 130 | 3.91 | 20.0 |
| BC03962 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 14.3 | 14.4 | 4.84 | 4.25 to 5.75 | 91.4 | 70.0 to 130 | 0.697 | 20.0 |
| BC03963 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.0985 | 0.0998 | 0.0994 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.31 | 20.0 |
| BC03962 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0958 | 0.0994 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 0.418 | 20.0 |
| BC03963 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03962 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0973 | 0.0987 | 0.102 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.43 | 20.0 |
| BC03966 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.639 | 0.633 | 0.203 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.943 | 20.0 |
| BC03962 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 1.35 | 1.36 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.738 | 20.0 |
| BC03963 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.100 | 0.104 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:42

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-18R

Laboratory ID Number: BC03958

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03962 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.106 | 0.105 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC03966 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.224 | 0.222 | 0.198 | 0.170 to 0.230 | 99.1 | 70.0 to 130 | 0.897 | 20.0 |
| BC03962 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.252 | 0.253 | 0.205 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.396 | 20.0 |
| BC03966 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 21.6 | 21.3 | 5.11 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.40 | 20.0 |
| BC03962 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 8.44 | 8.54 | 5.15 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 1.18 | 20.0 |
| BC03963 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.137 | 0.140 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.17 | 20.0 |
| BC03962 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.148 | 0.150 | 0.101 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 1.34 | 20.0 |
| BC03962 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00391 | 0.00393 | 0.00393 | 0.00340 to 0.00460 | 97.8 | 70.0 to 130 | 0.510 | 20.0 |
| BC03963 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.0982 | 0.0983 | 0.0995 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.102 | 20.0 |
| BC03962 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.115 | 0.115 | 0.0997 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 13.2 | 13.3 | 9.90 | 8.50 to 11.5 | 99.3 | 70.0 to 130 | 0.755 | 20.0 |
| BC03962 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 34.5 | 35.0 | 9.89 | 8.50 to 11.5 | 90.0 | 70.0 to 130 | 1.44 | 20.0 |
| BC03963 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.0471 | 0.0512 | 0.100 | 0.0850 to 0.115 | 47.1 | 70.0 to 130 | 8.34 | 20.0 |
| BC03962 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0986 | 0.0979 | 0.102 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 0.712 | 20.0 |
| BC03966 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 10.9 | 10.9 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 7.96 | 8.05 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC03966 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 50.9 | 49.0 | 5.09 | 4.25 to 5.75 | 154 | 70.0 to 130 | 3.80 | 20.0 |
| BC03962 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 334 | 327 | 5.12 | 4.25 to 5.75 | 300 | 70.0 to 130 | 2.12 | 20.0 |
| BC03963 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03962 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC03963 | Total Organic Carbon | mg/L | 0.200 | 1.00 | 10.0 | 10.3 | 9.80 | 9.01 | | 86.0 | 80.0 to 120 | 4.98 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:42

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-18R

Laboratory ID Number: BC03958

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03962 | Chloride | mg/L | -0.0767 | 1.00 | 250 | 414 | 160 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 3.17 | 20.0 |
| BC03962 | Fluoride | mg/L | 0.0147 | 0.125 | 2.50 | 2.84 | 0.249 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 3.27 | 20.0 |
| BC03962 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.05 | 0.200 | 2.00 | 2.12 | -0.040 | 1.86 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC03962 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 1030 | 51.0 | 40.0 to 60.0 | | | 1.92 | 10.0 |
| BC03962 | Sulfate | mg/L | 0.0558 | 2.0 | 400 | 830 | 376 | 20.6 | 18.0 to 22.0 | 115 | 80.0 to 120 | 1.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R DUP

Location Code: WMWGORAP
Collected: 2/22/22 13:42
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03959

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:54 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:54 | | 1.015 | 20.5 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:54 | | 1.015 | 3.87 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:54 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:54 | | 1.015 | 5.33 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:54 | | 1 | 21.8 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:54 | | 1.015 | 10.2 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 10:54 | | 1.015 | 11.5 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:55 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:55 | | 1.015 | 21.4 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:55 | | 1.015 | 4.00 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:55 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:55 | | 1.015 | 5.39 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:55 | | 1 | 22.3 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:55 | | 1.015 | 10.4 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 09:55 | | 1.015 | 11.6 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | 0.0853 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | 0.000345 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | 0.0713 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | 0.000234 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | 0.000678 | mg/L | 0.000068 | 0.000203 | | |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | 0.0000857 | mg/L | 0.000068 | 0.000203 | J | |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | 0.163 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | 0.000250 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | 0.872 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R DUP

Location Code: WMWGORAP
Collected: 2/22/22 13:42
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03959

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | 0.000325 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | 0.0741 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | 0.000679 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | 0.167 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | 0.000238 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | 0.864 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:05 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:24 | 2/25/22 12:24 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 80.8 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 134 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 80.8 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 0.04 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/2/22 09:22 | 3/2/22 09:22 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R DUP

Location Code: WMWGORAP

Collected: 2/22/22 13:42

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03959

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 14:47 | 2/24/22 14:47 | | 1 | 3.41 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 09:48 | 2/25/22 09:48 | | 1 | 0.118 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 09:17 | 3/2/22 09:17 | | 1 | 26.8 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/22/22 13:39 | 2/22/22 13:39 | | | 198.06 | uS/cm | | | FA |
| pH | 2/22/22 13:39 | 2/22/22 13:39 | | | 6.29 | SU | | | FA |
| Temperature | 2/22/22 13:39 | 2/22/22 13:39 | | | 17.31 | C | | | FA |
| Turbidity | 2/22/22 13:39 | 2/22/22 13:39 | | | 4.74 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:42

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-18R DUP

Laboratory ID Number: BC03959

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03963 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.102 | 0.104 | 0.0988 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03962 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.132 | 0.138 | 0.0983 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 4.44 | 20.0 |
| BC03963 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0922 | 0.0933 | 0.0893 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 1.19 | 20.0 |
| BC03962 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0997 | 0.102 | 0.0926 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 2.28 | 20.0 |
| BC03963 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.104 | 0.104 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0993 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.271 | 0.274 | 0.0960 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.10 | 20.0 |
| BC03962 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.148 | 0.145 | 0.0959 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 2.05 | 20.0 |
| BC03963 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0940 | 0.101 | 0.0920 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 7.18 | 20.0 |
| BC03962 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03966 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.02 | 1.03 | 0.993 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC03962 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 1.10 | 1.11 | 0.982 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.905 | 20.0 |
| BC03963 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.100 | 0.0996 | 0.0986 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03962 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0998 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.62 | 20.0 |
| BC03966 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 62.6 | 60.2 | 4.84 | 4.25 to 5.75 | 182 | 70.0 to 130 | 3.91 | 20.0 |
| BC03962 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 14.3 | 14.4 | 4.84 | 4.25 to 5.75 | 91.4 | 70.0 to 130 | 0.697 | 20.0 |
| BC03963 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.0985 | 0.0998 | 0.0994 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.31 | 20.0 |
| BC03962 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0958 | 0.0994 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 0.418 | 20.0 |
| BC03963 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03962 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0973 | 0.0987 | 0.102 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.43 | 20.0 |
| BC03966 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.639 | 0.633 | 0.203 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.943 | 20.0 |
| BC03962 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 1.35 | 1.36 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.738 | 20.0 |
| BC03963 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.100 | 0.104 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:42

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-18R DUP

Laboratory ID Number: BC03959

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03962 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.106 | 0.105 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC03966 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.224 | 0.222 | 0.198 | 0.170 to 0.230 | 99.1 | 70.0 to 130 | 0.897 | 20.0 |
| BC03962 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.252 | 0.253 | 0.205 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.396 | 20.0 |
| BC03966 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 21.6 | 21.3 | 5.11 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.40 | 20.0 |
| BC03962 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 8.44 | 8.54 | 5.15 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 1.18 | 20.0 |
| BC03963 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.137 | 0.140 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.17 | 20.0 |
| BC03962 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.148 | 0.150 | 0.101 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 1.34 | 20.0 |
| BC03962 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00391 | 0.00393 | 0.00393 | 0.00340 to 0.00460 | 97.8 | 70.0 to 130 | 0.510 | 20.0 |
| BC03963 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.0982 | 0.0983 | 0.0995 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.102 | 20.0 |
| BC03962 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.115 | 0.115 | 0.0997 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 13.2 | 13.3 | 9.90 | 8.50 to 11.5 | 99.3 | 70.0 to 130 | 0.755 | 20.0 |
| BC03962 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 34.5 | 35.0 | 9.89 | 8.50 to 11.5 | 90.0 | 70.0 to 130 | 1.44 | 20.0 |
| BC03963 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.0471 | 0.0512 | 0.100 | 0.0850 to 0.115 | 47.1 | 70.0 to 130 | 8.34 | 20.0 |
| BC03962 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0986 | 0.0979 | 0.102 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 0.712 | 20.0 |
| BC03966 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 10.9 | 10.9 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 7.96 | 8.05 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC03966 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 50.9 | 49.0 | 5.09 | 4.25 to 5.75 | 154 | 70.0 to 130 | 3.80 | 20.0 |
| BC03962 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 334 | 327 | 5.12 | 4.25 to 5.75 | 300 | 70.0 to 130 | 2.12 | 20.0 |
| BC03963 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03962 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC03963 | Total Organic Carbon | mg/L | 0.200 | 1.00 | 10.0 | 10.3 | 9.80 | 9.01 | | 86.0 | 80.0 to 120 | 4.98 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:42

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-18R DUP

Laboratory ID Number: BC03959

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03962 | Chloride | mg/L | -0.0767 | 1.00 | 250 | 414 | 160 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 3.17 | 20.0 |
| BC03962 | Fluoride | mg/L | 0.0147 | 0.125 | 2.50 | 2.84 | 0.249 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 3.27 | 20.0 |
| BC03962 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.05 | 0.200 | 2.00 | 2.12 | -0.040 | 1.86 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC03962 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 1030 | 51.0 | 40.0 to 60.0 | | | 1.92 | 10.0 |
| BC03962 | Sulfate | mg/L | 0.0558 | 2.0 | 400 | 830 | 376 | 20.6 | 18.0 to 22.0 | 115 | 80.0 to 120 | 1.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18VR

Location Code: WMWGORAP
Collected: 2/22/22 15:15
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03960

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:55 | | 1.015 | 0.0488 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:55 | | 1.015 | 5.80 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:55 | | 1.015 | 0.664 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:55 | | 1.015 | 0.0446 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:55 | | 1.015 | 1.82 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:55 | | 1 | 11.2 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:55 | | 1.015 | 5.25 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:37 | | 20.3 | 113 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:57 | | 1.015 | 0.0486 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:57 | | 1.015 | 5.79 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:57 | | 1.015 | 0.573 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:57 | | 1.015 | 0.0444 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:57 | | 1.015 | 1.84 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:57 | | 1 | 11.0 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:57 | | 1.015 | 5.15 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 11:58 | | 20.3 | 115 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | 0.0590 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | 0.00164 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | 0.187 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | 0.000522 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | 0.0000932 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | 0.0000895 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | 0.0245 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | 0.0336 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | 2.58 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18VR

Location Code: WMWGORAP

Collected: 2/22/22 15:15

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03960

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | 0.00413 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | 0.00171 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | 0.191 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | 0.0000852 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | 0.0250 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | 0.0337 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | 2.65 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:09 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:26 | 2/25/22 12:26 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 250 | mg/L | | 0.10 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 298 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 244 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 5.39 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/2/22 09:42 | 3/2/22 09:42 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18VR

Location Code: WMWGORAP

Collected: 2/22/22 15:15

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03960

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 14:49 | 2/24/22 14:49 | | 1 | 15.3 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 09:50 | 2/25/22 09:50 | | 1 | 0.199 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 09:18 | 3/2/22 09:18 | | 1 | 13.0 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/22/22 15:12 | 2/22/22 15:12 | | | 482.09 | uS/cm | | | FA |
| pH | 2/22/22 15:12 | 2/22/22 15:12 | | | 7.88 | SU | | | FA |
| Temperature | 2/22/22 15:12 | 2/22/22 15:12 | | | 17.35 | C | | | FA |
| Turbidity | 2/22/22 15:12 | 2/22/22 15:12 | | | 3.16 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 15:15

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-18VR

Laboratory ID Number: BC03960

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03963 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.102 | 0.104 | 0.0988 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03962 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.132 | 0.138 | 0.0983 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 4.44 | 20.0 |
| BC03963 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0922 | 0.0933 | 0.0893 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 1.19 | 20.0 |
| BC03962 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0997 | 0.102 | 0.0926 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 2.28 | 20.0 |
| BC03963 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.104 | 0.104 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0993 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.271 | 0.274 | 0.0960 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.10 | 20.0 |
| BC03962 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.148 | 0.145 | 0.0959 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 2.05 | 20.0 |
| BC03963 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0940 | 0.101 | 0.0920 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 7.18 | 20.0 |
| BC03962 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03966 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.02 | 1.03 | 0.993 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC03962 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 1.10 | 1.11 | 0.982 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.905 | 20.0 |
| BC03963 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.100 | 0.0996 | 0.0986 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03962 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0998 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.62 | 20.0 |
| BC03966 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 62.6 | 60.2 | 4.84 | 4.25 to 5.75 | 182 | 70.0 to 130 | 3.91 | 20.0 |
| BC03962 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 14.3 | 14.4 | 4.84 | 4.25 to 5.75 | 91.4 | 70.0 to 130 | 0.697 | 20.0 |
| BC03963 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.0985 | 0.0998 | 0.0994 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.31 | 20.0 |
| BC03962 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0958 | 0.0994 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 0.418 | 20.0 |
| BC03963 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03962 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0973 | 0.0987 | 0.102 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.43 | 20.0 |
| BC03966 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.639 | 0.633 | 0.203 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.943 | 20.0 |
| BC03962 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 1.35 | 1.36 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.738 | 20.0 |
| BC03963 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.100 | 0.104 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 15:15

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-18VR

Laboratory ID Number: BC03960

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03962 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.106 | 0.105 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC03966 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.224 | 0.222 | 0.198 | 0.170 to 0.230 | 99.1 | 70.0 to 130 | 0.897 | 20.0 |
| BC03962 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.252 | 0.253 | 0.205 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.396 | 20.0 |
| BC03966 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 21.6 | 21.3 | 5.11 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.40 | 20.0 |
| BC03962 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 8.44 | 8.54 | 5.15 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 1.18 | 20.0 |
| BC03963 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.137 | 0.140 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.17 | 20.0 |
| BC03962 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.148 | 0.150 | 0.101 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 1.34 | 20.0 |
| BC03962 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00391 | 0.00393 | 0.00393 | 0.00340 to 0.00460 | 97.8 | 70.0 to 130 | 0.510 | 20.0 |
| BC03963 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.0982 | 0.0983 | 0.0995 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.102 | 20.0 |
| BC03962 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.115 | 0.115 | 0.0997 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 13.2 | 13.3 | 9.90 | 8.50 to 11.5 | 99.3 | 70.0 to 130 | 0.755 | 20.0 |
| BC03962 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 34.5 | 35.0 | 9.89 | 8.50 to 11.5 | 90.0 | 70.0 to 130 | 1.44 | 20.0 |
| BC03963 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.0471 | 0.0512 | 0.100 | 0.0850 to 0.115 | 47.1 | 70.0 to 130 | 8.34 | 20.0 |
| BC03962 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0986 | 0.0979 | 0.102 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 0.712 | 20.0 |
| BC03966 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 10.9 | 10.9 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 7.96 | 8.05 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC03966 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 50.9 | 49.0 | 5.09 | 4.25 to 5.75 | 154 | 70.0 to 130 | 3.80 | 20.0 |
| BC03962 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 334 | 327 | 5.12 | 4.25 to 5.75 | 300 | 70.0 to 130 | 2.12 | 20.0 |
| BC03963 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03962 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC03963 | Total Organic Carbon | mg/L | 0.200 | 1.00 | 10.0 | 10.3 | 9.80 | 9.01 | | 86.0 | 80.0 to 120 | 4.98 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 15:15

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-18VR

Laboratory ID Number: BC03960

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03962 | Chloride | mg/L | -0.0767 | 1.00 | 250 | 414 | 160 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 3.17 | 20.0 |
| BC03962 | Fluoride | mg/L | 0.0147 | 0.125 | 2.50 | 2.84 | 0.249 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 3.27 | 20.0 |
| BC03962 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.05 | 0.200 | 2.00 | 2.12 | -0.040 | 1.86 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC03962 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 1030 | 51.0 | 40.0 to 60.0 | | | 1.92 | 10.0 |
| BC03962 | Sulfate | mg/L | 0.0558 | 2.0 | 400 | 830 | 376 | 20.6 | 18.0 to 22.0 | 115 | 80.0 to 120 | 1.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-45V

Location Code: WMWGORAP
Collected: 2/23/22 11:29
Customer ID:
Submission Date: 2/23/22 16:56

Laboratory ID Number: BC03961

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:57 | | 1.015 | 0.0380 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:57 | | 1.015 | 5.61 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:57 | | 1.015 | 0.0704 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:57 | | 1.015 | 0.0374 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:57 | | 1.015 | 1.86 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:57 | | 1 | 12.7 | mg/L | | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:57 | | 1.015 | 5.92 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:39 | | 20.3 | 216 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 09:59 | | 1.015 | 0.0384 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 09:59 | | 1.015 | 5.77 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 09:59 | | 1.015 | 0.0412 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 09:59 | | 1.015 | 0.0381 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 09:59 | | 1.015 | 1.88 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 09:59 | | 1 | 12.5 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 09:59 | | 1.015 | 5.86 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:00 | | 20.3 | 229 | mg/L | 0.609 | 8.12 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | 0.133 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | 0.00106 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | 0.0207 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | 0.000204 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | 0.0000741 | mg/L | 0.000068 | 0.000203 | J | |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | 0.0219 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | 0.00470 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | 11.6 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-45V

Location Code: WMWGORAP

Collected: 2/23/22 11:29

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03961

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | 0.0105 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | 0.000984 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | 0.0221 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | 0.0218 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | 0.00452 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | 11.8 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:13 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:28 | 2/25/22 12:28 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 200 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 674 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 199 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 0.96 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/2/22 09:58 | 3/2/22 09:58 | | 1 | 1.31 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-45V

Location Code: WMWGORAP
Collected: 2/23/22 11:29
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03961

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 14:50 | 2/24/22 14:50 | | 4 | 54.2 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 09:51 | 2/25/22 09:51 | | 1 | 0.204 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 09:34 | 3/2/22 09:34 | | 20 | 273 | mg/L | 10.00 | 20 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/23/22 11:26 | 2/23/22 11:26 | | | 1139.43 | uS/cm | | | FA |
| pH | 2/23/22 11:26 | 2/23/22 11:26 | | | 7.86 | SU | | | FA |
| Temperature | 2/23/22 11:26 | 2/23/22 11:26 | | | 16.32 | C | | | FA |
| Turbidity | 2/23/22 11:26 | 2/23/22 11:26 | | | 4.16 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 11:29

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-45V

Laboratory ID Number: BC03961

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03963 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.102 | 0.104 | 0.0988 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03962 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.132 | 0.138 | 0.0983 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 4.44 | 20.0 |
| BC03963 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0922 | 0.0933 | 0.0893 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 1.19 | 20.0 |
| BC03962 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0997 | 0.102 | 0.0926 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 2.28 | 20.0 |
| BC03963 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.104 | 0.104 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0993 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.271 | 0.274 | 0.0960 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.10 | 20.0 |
| BC03962 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.148 | 0.145 | 0.0959 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 2.05 | 20.0 |
| BC03963 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0940 | 0.101 | 0.0920 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 7.18 | 20.0 |
| BC03962 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03966 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.02 | 1.03 | 0.993 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC03962 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 1.10 | 1.11 | 0.982 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.905 | 20.0 |
| BC03963 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.100 | 0.0996 | 0.0986 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03962 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0998 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.62 | 20.0 |
| BC03966 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 62.6 | 60.2 | 4.84 | 4.25 to 5.75 | 182 | 70.0 to 130 | 3.91 | 20.0 |
| BC03962 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 14.3 | 14.4 | 4.84 | 4.25 to 5.75 | 91.4 | 70.0 to 130 | 0.697 | 20.0 |
| BC03963 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.0985 | 0.0998 | 0.0994 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.31 | 20.0 |
| BC03962 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0958 | 0.0994 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 0.418 | 20.0 |
| BC03963 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03962 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0973 | 0.0987 | 0.102 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.43 | 20.0 |
| BC03966 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.639 | 0.633 | 0.203 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.943 | 20.0 |
| BC03962 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 1.35 | 1.36 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.738 | 20.0 |
| BC03963 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.100 | 0.104 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 11:29

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-45V

Laboratory ID Number: BC03961

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03962 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.106 | 0.105 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC03966 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.224 | 0.222 | 0.198 | 0.170 to 0.230 | 99.1 | 70.0 to 130 | 0.897 | 20.0 |
| BC03962 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.252 | 0.253 | 0.205 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.396 | 20.0 |
| BC03966 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 21.6 | 21.3 | 5.11 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.40 | 20.0 |
| BC03962 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 8.44 | 8.54 | 5.15 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 1.18 | 20.0 |
| BC03963 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.137 | 0.140 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.17 | 20.0 |
| BC03962 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.148 | 0.150 | 0.101 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 1.34 | 20.0 |
| BC03962 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00391 | 0.00393 | 0.00393 | 0.00340 to 0.00460 | 97.8 | 70.0 to 130 | 0.510 | 20.0 |
| BC03963 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.0982 | 0.0983 | 0.0995 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.102 | 20.0 |
| BC03962 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.115 | 0.115 | 0.0997 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 13.2 | 13.3 | 9.90 | 8.50 to 11.5 | 99.3 | 70.0 to 130 | 0.755 | 20.0 |
| BC03962 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 34.5 | 35.0 | 9.89 | 8.50 to 11.5 | 90.0 | 70.0 to 130 | 1.44 | 20.0 |
| BC03963 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.0471 | 0.0512 | 0.100 | 0.0850 to 0.115 | 47.1 | 70.0 to 130 | 8.34 | 20.0 |
| BC03962 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0986 | 0.0979 | 0.102 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 0.712 | 20.0 |
| BC03966 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 10.9 | 10.9 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 7.96 | 8.05 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC03966 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 50.9 | 49.0 | 5.09 | 4.25 to 5.75 | 154 | 70.0 to 130 | 3.80 | 20.0 |
| BC03962 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 334 | 327 | 5.12 | 4.25 to 5.75 | 300 | 70.0 to 130 | 2.12 | 20.0 |
| BC03963 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03962 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC03963 | Total Organic Carbon | mg/L | 0.200 | 1.00 | 10.0 | 10.3 | 9.80 | 9.01 | | 86.0 | 80.0 to 120 | 4.98 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 11:29

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-45V

Laboratory ID Number: BC03961

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC04380 | Alkalinity, Total as CaCO3 | mg/L | | | | | 234 | 51.4 | 45.0 to 55.0 | | | 8.00 | 10.0 |
| BC03962 | Chloride | mg/L | -0.0767 | 1.00 | 250 | 414 | 160 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 3.17 | 20.0 |
| BC03962 | Fluoride | mg/L | 0.0147 | 0.125 | 2.50 | 2.84 | 0.249 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 3.27 | 20.0 |
| BC03962 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.05 | 0.200 | 2.00 | 2.12 | -0.040 | 1.86 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC03962 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 1030 | 51.0 | 40.0 to 60.0 | | | 1.92 | 10.0 |
| BC03962 | Sulfate | mg/L | 0.0558 | 2.0 | 400 | 830 | 376 | 20.6 | 18.0 to 22.0 | 115 | 80.0 to 120 | 1.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-03V

Location Code: WMWGORAP
Collected: 2/23/22 12:49
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03962

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/25/22 10:56 | 2/28/22 10:59 | | 1.015 | 0.109 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 2/25/22 10:56 | 2/28/22 10:59 | | 1.015 | 9.73 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/25/22 10:56 | 2/28/22 10:59 | | 1.015 | 1.17 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 2/25/22 10:56 | 2/28/22 10:59 | | 1.015 | 0.0489 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/25/22 10:56 | 2/28/22 10:59 | | 1.015 | 3.55 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 2/25/22 10:56 | 2/28/22 10:59 | | 1 | 15.1 | mg/L | | | |
| Silicon, Total | 2/25/22 10:56 | 2/28/22 10:59 | | 1.015 | 7.06 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/25/22 10:56 | 2/28/22 12:41 | | 20.3 | 319 | mg/L | 0.609 | 8.12 | RA |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 10:01 | | 1.015 | 0.106 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 10:01 | | 1.015 | 9.10 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 10:01 | | 1.015 | 0.438 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 10:01 | | 1.015 | 0.0503 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 10:01 | | 1.015 | 3.39 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 10:01 | | 1 | 14.9 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 10:01 | | 1.015 | 6.98 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:02 | | 20.3 | 314 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | 0.0334 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | 0.00249 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | 0.0486 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | 0.000509 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | 0.000250 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | 0.000140 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | 0.0519 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | 0.0191 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | 25.5 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-03V

Location Code: WMWGORAP

Collected: 2/23/22 12:49

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03962

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | 0.00187 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | 0.0444 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | 0.000217 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | 0.000207 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | 0.0502 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | 0.0185 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | 24.0 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:17 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:30 | 2/25/22 12:30 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 250 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 1050 | mg/L | | 100 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 249 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 0.89 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/2/22 10:14 | 3/2/22 10:14 | | 1 | 9.42 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-03V

Location Code: WMWGORAP

Collected: 2/23/22 12:49

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03962

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 14:51 | 2/24/22 14:51 | | 25 | 155 | mg/L | 12.50 | 25 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 09:52 | 2/25/22 09:52 | | 1 | 0.241 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 09:35 | 3/2/22 09:35 | | 20 | 370 | mg/L | 10.00 | 20 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/23/22 12:46 | 2/23/22 12:46 | | | 1813.51 | uS/cm | | | FA |
| pH | 2/23/22 12:46 | 2/23/22 12:46 | | | 7.45 | SU | | | FA |
| Temperature | 2/23/22 12:46 | 2/23/22 12:46 | | | 16.16 | C | | | FA |
| Turbidity | 2/23/22 12:46 | 2/23/22 12:46 | | | 3.14 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 12:49

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-03V

Laboratory ID Number: BC03962

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03963 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.102 | 0.104 | 0.0988 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC03962 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.132 | 0.138 | 0.0983 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 4.44 | 20.0 |
| BC03963 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0922 | 0.0933 | 0.0893 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 1.19 | 20.0 |
| BC03962 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0997 | 0.102 | 0.0926 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 2.28 | 20.0 |
| BC03963 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.104 | 0.104 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0993 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.271 | 0.274 | 0.0960 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.10 | 20.0 |
| BC03962 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.148 | 0.145 | 0.0959 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 2.05 | 20.0 |
| BC03963 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0940 | 0.101 | 0.0920 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 7.18 | 20.0 |
| BC03962 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC03966 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.02 | 1.03 | 0.993 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC03962 | Boron, Total | mg/L | -0.000323 | 0.0650 | 1.00 | 1.10 | 1.11 | 0.982 | 0.850 to 1.15 | 99.1 | 70.0 to 130 | 0.905 | 20.0 |
| BC03963 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.100 | 0.0996 | 0.0986 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.401 | 20.0 |
| BC03962 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0998 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.62 | 20.0 |
| BC03966 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 62.6 | 60.2 | 4.84 | 4.25 to 5.75 | 182 | 70.0 to 130 | 3.91 | 20.0 |
| BC03962 | Calcium, Total | mg/L | -0.00556 | 0.152 | 5.00 | 14.3 | 14.4 | 4.84 | 4.25 to 5.75 | 91.4 | 70.0 to 130 | 0.697 | 20.0 |
| BC03963 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.0985 | 0.0998 | 0.0994 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.31 | 20.0 |
| BC03962 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0958 | 0.0994 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 0.418 | 20.0 |
| BC03963 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC03962 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0973 | 0.0987 | 0.102 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.43 | 20.0 |
| BC03966 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.639 | 0.633 | 0.203 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.943 | 20.0 |
| BC03962 | Iron, Total | mg/L | -0.000047 | 0.0176 | 0.2 | 1.35 | 1.36 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.738 | 20.0 |
| BC03963 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.100 | 0.104 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 12:49

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-03V

Laboratory ID Number: BC03962

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03962 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.106 | 0.105 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.948 | 20.0 |
| BC03966 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.224 | 0.222 | 0.198 | 0.170 to 0.230 | 99.1 | 70.0 to 130 | 0.897 | 20.0 |
| BC03962 | Lithium, Total | mg/L | -0.000369 | 0.0154 | 0.200 | 0.252 | 0.253 | 0.205 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.396 | 20.0 |
| BC03966 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 21.6 | 21.3 | 5.11 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.40 | 20.0 |
| BC03962 | Magnesium, Total | mg/L | 0.00100 | 0.0462 | 5.00 | 8.44 | 8.54 | 5.15 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 1.18 | 20.0 |
| BC03963 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.137 | 0.140 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.17 | 20.0 |
| BC03962 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.148 | 0.150 | 0.101 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 1.34 | 20.0 |
| BC03962 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00391 | 0.00393 | 0.00393 | 0.00340 to 0.00460 | 97.8 | 70.0 to 130 | 0.510 | 20.0 |
| BC03963 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.0982 | 0.0983 | 0.0995 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.102 | 20.0 |
| BC03962 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.115 | 0.115 | 0.0997 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC03963 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 13.2 | 13.3 | 9.90 | 8.50 to 11.5 | 99.3 | 70.0 to 130 | 0.755 | 20.0 |
| BC03962 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 34.5 | 35.0 | 9.89 | 8.50 to 11.5 | 90.0 | 70.0 to 130 | 1.44 | 20.0 |
| BC03963 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.0471 | 0.0512 | 0.100 | 0.0850 to 0.115 | 47.1 | 70.0 to 130 | 8.34 | 20.0 |
| BC03962 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0986 | 0.0979 | 0.102 | 0.0850 to 0.115 | 98.6 | 70.0 to 130 | 0.712 | 20.0 |
| BC03966 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 10.9 | 10.9 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03962 | Silicon, Total | mg/L | 0.000268 | 0.0440 | 1.00 | 7.96 | 8.05 | 1.01 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC03966 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 50.9 | 49.0 | 5.09 | 4.25 to 5.75 | 154 | 70.0 to 130 | 3.80 | 20.0 |
| BC03962 | Sodium, Total | mg/L | 0.00459 | 0.0660 | 5.00 | 334 | 327 | 5.12 | 4.25 to 5.75 | 300 | 70.0 to 130 | 2.12 | 20.0 |
| BC03963 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03962 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC03963 | Total Organic Carbon | mg/L | 0.200 | 1.00 | 10.0 | 10.3 | 9.80 | 9.01 | | 86.0 | 80.0 to 120 | 4.98 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 12:49

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-03V

Laboratory ID Number: BC03962

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC04380 | Alkalinity, Total as CaCO3 | mg/L | | | | | 234 | 51.4 | 45.0 to 55.0 | | | 8.00 | 10.0 |
| BC03962 | Chloride | mg/L | -0.0767 | 1.00 | 250 | 414 | 160 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 3.17 | 20.0 |
| BC03962 | Fluoride | mg/L | 0.0147 | 0.125 | 2.50 | 2.84 | 0.249 | 2.66 | 2.25 to 2.75 | 104 | 80.0 to 120 | 3.27 | 20.0 |
| BC03962 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.05 | 0.200 | 2.00 | 2.12 | -0.040 | 1.86 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC03962 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 1030 | 51.0 | 40.0 to 60.0 | | | 1.92 | 10.0 |
| BC03962 | Sulfate | mg/L | 0.0558 | 2.0 | 400 | 830 | 376 | 20.6 | 18.0 to 22.0 | 115 | 80.0 to 120 | 1.61 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-9V

Location Code: WMWGORAP
Collected: 2/21/22 12:08
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03963

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 09:38 | | 1.015 | 0.0349 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 11:42 | | 10.15 | 47.7 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 09:38 | | 1.015 | 0.266 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 09:38 | | 1.015 | 0.0293 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 09:38 | | 1.015 | 15.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 09:38 | | 1 | 33.0 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 09:38 | | 1.015 | 15.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 11:42 | | 10.15 | 47.1 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 10:02 | | 1.015 | 0.0326 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 12:03 | | 20.3 | 47.8 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 10:02 | | 1.015 | 0.273 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 10:02 | | 1.015 | 0.0291 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 10:02 | | 1.015 | 15.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 10:02 | | 1 | 33.2 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 10:02 | | 1.015 | 15.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:03 | | 20.3 | 47.6 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | 0.000209 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | 0.161 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | 0.0353 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | 0.00220 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | 3.16 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
 Matrix spike and matrix spike duplicate recoveries for dissolved selenium were outside of the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-9V

Location Code: WMWGORAP

Collected: 2/21/22 12:08

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03963

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | 0.000171 | mg/L | 0.000068 | 0.000203 | J |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | 0.180 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | 0.000237 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | 0.0364 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | 0.000108 | mg/L | 0.000068 | 0.000203 | J |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | 3.27 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:36 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:39 | 2/25/22 12:39 | | 1 | Not Detected | mg/L as N | 0.20 | 0.30 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 229 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 299 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 228 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 0.59 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/2/22 10:31 | 3/2/22 10:31 | | 1 | 1.70 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Matrix spike and matrix spike duplicate recoveries for dissolved selenium were outside of the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-9V

Location Code: WMWGORAP
Collected: 2/21/22 12:08
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03963

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:04 | 2/24/22 15:04 | | 1 | 18.4 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:04 | 2/25/22 10:04 | | 1 | 0.177 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 10:02 | 3/2/22 10:02 | | 1 | 32.4 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/21/22 12:05 | 2/21/22 12:05 | | | 544.18 | uS/cm | | | FA |
| pH | 2/21/22 12:05 | 2/21/22 12:05 | | | 7.00 | SU | | | FA |
| Temperature | 2/21/22 12:05 | 2/21/22 12:05 | | | 20.16 | C | | | FA |
| Turbidity | 2/21/22 12:05 | 2/21/22 12:05 | | | 0.87 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Matrix spike and matrix spike duplicate recoveries for dissolved selenium were outside of the specification limit.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/21/22 12:08

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-9V

Laboratory ID Number: BC03963

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03963 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.102 | 0.104 | 0.0988 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 | |
| BC03972 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.0970 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.514 | 20.0 | |
| BC03963 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0922 | 0.0933 | 0.0893 | 0.0850 to 0.115 | 92.2 | 70.0 to 130 | 1.19 | 20.0 | |
| BC03972 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0868 | 0.0888 | 0.0926 | 0.0850 to 0.115 | 86.8 | 70.0 to 130 | 2.28 | 20.0 | |
| BC03963 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.104 | 0.104 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 | |
| BC03972 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.0950 | 0.0969 | 0.0993 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.98 | 20.0 | |
| BC03963 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.271 | 0.274 | 0.0960 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.10 | 20.0 | |
| BC03972 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.0933 | 0.0947 | 0.0959 | 0.0850 to 0.115 | 93.3 | 70.0 to 130 | 1.49 | 20.0 | |
| BC03963 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0940 | 0.101 | 0.0920 | 0.0850 to 0.115 | 94.0 | 70.0 to 130 | 7.18 | 20.0 | |
| BC03972 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.102 | 0.107 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 4.78 | 20.0 | |
| BC03966 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.02 | 1.03 | 0.993 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.976 | 20.0 | |
| BC03972 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 0.955 | 0.976 | 0.993 | 0.850 to 1.15 | 95.5 | 70.0 to 130 | 2.18 | 20.0 | |
| BC03963 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.100 | 0.0996 | 0.0986 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.401 | 20.0 | |
| BC03972 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0946 | 0.0967 | 0.0984 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 2.20 | 20.0 | |
| BC03966 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 62.6 | 60.2 | 4.84 | 4.25 to 5.75 | 182 | 70.0 to 130 | 3.91 | 20.0 | |
| BC03972 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 4.74 | 4.72 | 4.80 | 4.25 to 5.75 | 94.8 | 70.0 to 130 | 0.423 | 20.0 | |
| BC03963 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.0985 | 0.0998 | 0.0994 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.31 | 20.0 | |
| BC03972 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0962 | 0.0994 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 0.835 | 20.0 | |
| BC03963 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 | |
| BC03972 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0991 | 0.0997 | 0.102 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.604 | 20.0 | |
| BC03966 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.639 | 0.633 | 0.203 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.943 | 20.0 | |
| BC03972 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.190 | 0.193 | 0.195 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 1.57 | 20.0 | |
| BC03963 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.100 | 0.104 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 3.92 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Matrix spike and matrix spike duplicate recoveries for dissolved selenium were outside of the specification limit.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/21/22 12:08

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-9V

Laboratory ID Number: BC03963

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03972 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03966 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.224 | 0.222 | 0.198 | 0.170 to 0.230 | 99.1 | 70.0 to 130 | 0.897 | 20.0 |
| BC03972 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.199 | 0.203 | 0.206 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 1.99 | 20.0 |
| BC03966 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 21.6 | 21.3 | 5.11 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.40 | 20.0 |
| BC03972 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.02 | 5.06 | 5.17 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.794 | 20.0 |
| BC03963 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.137 | 0.140 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.17 | 20.0 |
| BC03972 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.0980 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |
| BC03972 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00356 | 0.00383 | 0.00393 | 0.00340 to 0.00460 | 89.0 | 70.0 to 130 | 7.31 | 20.0 |
| BC03963 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.0982 | 0.0983 | 0.0995 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.102 | 20.0 |
| BC03972 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.0934 | 0.0956 | 0.0997 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 2.33 | 20.0 |
| BC03963 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 13.2 | 13.3 | 9.90 | 8.50 to 11.5 | 99.3 | 70.0 to 130 | 0.755 | 20.0 |
| BC03972 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 9.69 | 9.60 | 9.89 | 8.50 to 11.5 | 96.9 | 70.0 to 130 | 0.933 | 20.0 |
| BC03963 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.0471 | 0.0512 | 0.100 | 0.0850 to 0.115 | 47.1 | 70.0 to 130 | 8.34 | 20.0 |
| BC03972 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0969 | 0.100 | 0.102 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 |
| BC03966 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 10.9 | 10.9 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 0.977 | 0.994 | 1.00 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 1.73 | 20.0 |
| BC03966 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 50.9 | 49.0 | 5.09 | 4.25 to 5.75 | 154 | 70.0 to 130 | 3.80 | 20.0 |
| BC03972 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 4.97 | 5.11 | 5.18 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 2.78 | 20.0 |
| BC03963 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.100 | 0.0974 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.63 | 20.0 |
| BC03972 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03963 | Total Organic Carbon | mg/L | 0.200 | 1.00 | 10.0 | 10.3 | 9.80 | 9.01 | | 86.0 | 80.0 to 120 | 4.98 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Matrix spike and matrix spike duplicate recoveries for dissolved selenium were outside of the specification limit.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/21/22 12:08

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-9V

Laboratory ID Number: BC03963

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03972 | Chloride | mg/L | -0.0468 | 1.00 | 10.0 | 9.98 | 0.0149 | 10.2 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Fluoride | mg/L | -0.0149 | 0.125 | 2.50 | 2.63 | 0.00887 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 2.01 | -0.032 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC03971 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 610 | 51.0 | 40.0 to 60.0 | | | 0.654 | 10.0 |
| BC03972 | Sulfate | mg/L | 0.0572 | 2.0 | 20.0 | 21.0 | -0.0325 | 20.6 | 18.0 to 22.0 | 105 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Matrix spike and matrix spike duplicate recoveries for dissolved selenium were outside of the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-38H

Location Code: WMWGORAP
Collected: 2/22/22 09:35
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03964

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 09:40 | | 1.015 | 0.0452 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 09:40 | | 1.015 | 10.8 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 09:40 | | 1.015 | 0.104 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 09:40 | | 1.015 | 0.0594 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 09:40 | | 1.015 | 3.66 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 09:40 | | 1 | 15.9 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 09:40 | | 1.015 | 7.45 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 11:44 | | 10.15 | 124 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 10:04 | | 1.015 | 0.0441 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 10:04 | | 1.015 | 10.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 10:04 | | 1.015 | 0.0762 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 10:04 | | 1.015 | 0.0583 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 10:04 | | 1.015 | 3.57 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 10:04 | | 1 | 15.7 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 10:04 | | 1.015 | 7.34 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:05 | | 20.3 | 126 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | 0.0386 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | 0.00221 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | 0.301 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | 0.0277 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | 0.00322 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | 5.00 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-38H

Location Code: WMWGORAP
Collected: 2/22/22 09:35
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03964

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | 0.00183 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | 0.302 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | 0.0270 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | 0.00240 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | 4.90 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:40 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:41 | 2/25/22 12:41 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 263 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 345 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 259 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 4.23 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/2/22 11:20 | 3/2/22 11:20 | | 1 | 2.52 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-38H

Location Code: WMWGORAP

Collected: 2/22/22 09:35

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03964

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:19 | 2/24/22 15:19 | | 3 | 31.0 | mg/L | 1.50 | 3 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:05 | 2/25/22 10:05 | | 1 | 0.239 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 10:03 | 3/2/22 10:03 | | 1 | 27.9 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/22/22 09:30 | 2/22/22 09:30 | | | 741.45 | uS/cm | | | FA |
| pH | 2/22/22 09:30 | 2/22/22 09:30 | | | 7.89 | SU | | | FA |
| Temperature | 2/22/22 09:30 | 2/22/22 09:30 | | | 19.14 | C | | | FA |
| Turbidity | 2/22/22 09:30 | 2/22/22 09:30 | | | 1.62 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 09:35

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-38H

Laboratory ID Number: BC03964

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03973 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.107 | 0.104 | 0.0988 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.0970 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.514 | 20.0 |
| BC03973 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0971 | 0.0934 | 0.0893 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 3.88 | 20.0 |
| BC03972 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0868 | 0.0888 | 0.0926 | 0.0850 to 0.115 | 86.8 | 70.0 to 130 | 2.28 | 20.0 |
| BC03973 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.107 | 0.104 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.0950 | 0.0969 | 0.0993 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.98 | 20.0 |
| BC03973 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.181 | 0.175 | 0.0960 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.37 | 20.0 |
| BC03972 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.0933 | 0.0947 | 0.0959 | 0.0850 to 0.115 | 93.3 | 70.0 to 130 | 1.49 | 20.0 |
| BC03973 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0960 | 0.0992 | 0.0920 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 3.28 | 20.0 |
| BC03972 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.102 | 0.107 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 4.78 | 20.0 |
| BC03966 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.02 | 1.03 | 0.993 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC03972 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 0.955 | 0.976 | 0.993 | 0.850 to 1.15 | 95.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC03973 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.0965 | 0.100 | 0.0986 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 3.56 | 20.0 |
| BC03972 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0946 | 0.0967 | 0.0984 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 2.20 | 20.0 |
| BC03966 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 62.6 | 60.2 | 4.84 | 4.25 to 5.75 | 182 | 70.0 to 130 | 3.91 | 20.0 |
| BC03972 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 4.74 | 4.72 | 4.80 | 4.25 to 5.75 | 94.8 | 70.0 to 130 | 0.423 | 20.0 |
| BC03973 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.102 | 0.0985 | 0.0994 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.49 | 20.0 |
| BC03972 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0962 | 0.0994 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 0.835 | 20.0 |
| BC03973 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.104 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC03972 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0991 | 0.0997 | 0.102 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.604 | 20.0 |
| BC03966 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.639 | 0.633 | 0.203 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.943 | 20.0 |
| BC03972 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.190 | 0.193 | 0.195 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 1.57 | 20.0 |
| BC03973 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 09:35

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-38H

Laboratory ID Number: BC03964

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03972 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03966 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.224 | 0.222 | 0.198 | 0.170 to 0.230 | 99.1 | 70.0 to 130 | 0.897 | 20.0 |
| BC03972 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.199 | 0.203 | 0.206 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 1.99 | 20.0 |
| BC03966 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 21.6 | 21.3 | 5.11 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.40 | 20.0 |
| BC03972 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.02 | 5.06 | 5.17 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.794 | 20.0 |
| BC03973 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.243 | 0.238 | 0.102 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.08 | 20.0 |
| BC03972 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.0980 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |
| BC03972 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00356 | 0.00383 | 0.00393 | 0.00340 to 0.00460 | 89.0 | 70.0 to 130 | 7.31 | 20.0 |
| BC03973 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0995 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.00 | 20.0 |
| BC03972 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.0934 | 0.0956 | 0.0997 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 2.33 | 20.0 |
| BC03973 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 12.2 | 12.2 | 9.90 | 8.50 to 11.5 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 9.69 | 9.60 | 9.89 | 8.50 to 11.5 | 96.9 | 70.0 to 130 | 0.933 | 20.0 |
| BC03973 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.103 | 0.101 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC03972 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0969 | 0.100 | 0.102 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 |
| BC03966 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 10.9 | 10.9 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 0.977 | 0.994 | 1.00 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 1.73 | 20.0 |
| BC03966 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 50.9 | 49.0 | 5.09 | 4.25 to 5.75 | 154 | 70.0 to 130 | 3.80 | 20.0 |
| BC03972 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 4.97 | 5.11 | 5.18 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 2.78 | 20.0 |
| BC03973 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.102 | 0.100 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC03963 | Total Organic Carbon | mg/L | 0.200 | 1.00 | 10.0 | 10.3 | 9.80 | 9.01 | | 86.0 | 80.0 to 120 | 4.98 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 09:35

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-38H

Laboratory ID Number: BC03964

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03972 | Chloride | mg/L | -0.0468 | 1.00 | 10.0 | 9.98 | 0.0149 | 10.2 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Fluoride | mg/L | -0.0149 | 0.125 | 2.50 | 2.63 | 0.00887 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 2.01 | -0.032 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC03971 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 610 | 51.0 | 40.0 to 60.0 | | | 0.654 | 10.0 |
| BC03972 | Sulfate | mg/L | 0.0572 | 2.0 | 20.0 | 21.0 | -0.0325 | 20.6 | 18.0 to 22.0 | 105 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19

Location Code: WMWGORAP
Collected: 2/22/22 11:18
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03965

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 09:42 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 11:45 | | 10.15 | 54.6 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 09:42 | | 1.015 | 0.443 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 09:42 | | 1.015 | 0.0266 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 09:42 | | 1.015 | 16.4 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 09:42 | | 1 | 21.3 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 09:42 | | 1.015 | 9.94 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 11:45 | | 10.15 | 42.9 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 10:06 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 12:07 | | 20.3 | 57.6 | mg/L | 1.4007 | 8.12 | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 10:06 | | 1.015 | 0.436 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 10:06 | | 1.015 | 0.0266 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 10:06 | | 1.015 | 16.6 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 10:06 | | 1 | 21.2 | mg/L | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 10:06 | | 1.015 | 9.91 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:07 | | 20.3 | 47.0 | mg/L | 0.609 | 8.12 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | 0.00910 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | 0.000977 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | 0.334 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | 0.0259 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | 0.00267 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | 1.87 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19

Location Code: WMWGORAP

Collected: 2/22/22 11:18

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03965

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 16:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | 0.000837 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | 0.340 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | 0.0264 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | 0.00265 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | 1.86 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:44 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:43 | 2/25/22 12:43 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 286 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 304 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 283 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 2.98 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/4/22 12:13 | 3/4/22 12:13 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19

Location Code: WMWGORAP

Collected: 2/22/22 11:18

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03965

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:07 | 2/24/22 15:07 | | 1 | 4.59 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:06 | 2/25/22 10:06 | | 1 | 0.259 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 10:04 | 3/2/22 10:04 | | 1 | 13.7 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/22/22 11:15 | 2/22/22 11:15 | | | 597.93 | uS/cm | | | FA |
| pH | 2/22/22 11:15 | 2/22/22 11:15 | | | 7.71 | SU | | | FA |
| Temperature | 2/22/22 11:15 | 2/22/22 11:15 | | | 18.62 | C | | | FA |
| Turbidity | 2/22/22 11:15 | 2/22/22 11:15 | | | 0.82 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 11:18

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: BC03965

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03973 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.107 | 0.104 | 0.0988 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.0970 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.514 | 20.0 |
| BC03973 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0971 | 0.0934 | 0.0893 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 3.88 | 20.0 |
| BC03972 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0868 | 0.0888 | 0.0926 | 0.0850 to 0.115 | 86.8 | 70.0 to 130 | 2.28 | 20.0 |
| BC03973 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.107 | 0.104 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.0950 | 0.0969 | 0.0993 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.98 | 20.0 |
| BC03973 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.181 | 0.175 | 0.0960 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.37 | 20.0 |
| BC03972 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.0933 | 0.0947 | 0.0959 | 0.0850 to 0.115 | 93.3 | 70.0 to 130 | 1.49 | 20.0 |
| BC03973 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0960 | 0.0992 | 0.0920 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 3.28 | 20.0 |
| BC03972 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.102 | 0.107 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 4.78 | 20.0 |
| BC03966 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.02 | 1.03 | 0.993 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC03972 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 0.955 | 0.976 | 0.993 | 0.850 to 1.15 | 95.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC03973 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.0965 | 0.100 | 0.0986 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 3.56 | 20.0 |
| BC03972 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0946 | 0.0967 | 0.0984 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 2.20 | 20.0 |
| BC03966 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 62.6 | 60.2 | 4.84 | 4.25 to 5.75 | 182 | 70.0 to 130 | 3.91 | 20.0 |
| BC03972 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 4.74 | 4.72 | 4.80 | 4.25 to 5.75 | 94.8 | 70.0 to 130 | 0.423 | 20.0 |
| BC03973 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.102 | 0.0985 | 0.0994 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.49 | 20.0 |
| BC03972 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0962 | 0.0994 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 0.835 | 20.0 |
| BC03973 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.104 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC03972 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0991 | 0.0997 | 0.102 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.604 | 20.0 |
| BC03966 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.639 | 0.633 | 0.203 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.943 | 20.0 |
| BC03972 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.190 | 0.193 | 0.195 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 1.57 | 20.0 |
| BC03973 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 11:18

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: BC03965

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03972 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03966 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.224 | 0.222 | 0.198 | 0.170 to 0.230 | 99.1 | 70.0 to 130 | 0.897 | 20.0 |
| BC03972 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.199 | 0.203 | 0.206 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 1.99 | 20.0 |
| BC03966 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 21.6 | 21.3 | 5.11 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.40 | 20.0 |
| BC03972 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.02 | 5.06 | 5.17 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.794 | 20.0 |
| BC03973 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.243 | 0.238 | 0.102 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.08 | 20.0 |
| BC03972 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.0980 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |
| BC03972 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00356 | 0.00383 | 0.00393 | 0.00340 to 0.00460 | 89.0 | 70.0 to 130 | 7.31 | 20.0 |
| BC03973 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0995 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.00 | 20.0 |
| BC03972 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.0934 | 0.0956 | 0.0997 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 2.33 | 20.0 |
| BC03973 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 12.2 | 12.2 | 9.90 | 8.50 to 11.5 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 9.69 | 9.60 | 9.89 | 8.50 to 11.5 | 96.9 | 70.0 to 130 | 0.933 | 20.0 |
| BC03973 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.103 | 0.101 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC03972 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0969 | 0.100 | 0.102 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 |
| BC03966 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 10.9 | 10.9 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 0.977 | 0.994 | 1.00 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 1.73 | 20.0 |
| BC03966 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 50.9 | 49.0 | 5.09 | 4.25 to 5.75 | 154 | 70.0 to 130 | 3.80 | 20.0 |
| BC03972 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 4.97 | 5.11 | 5.18 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 2.78 | 20.0 |
| BC03973 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.102 | 0.100 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC04376 | Total Organic Carbon | mg/L | 0.270 | 1.00 | 10.0 | 10.7 | 10.4 | 9.67 | | 92.9 | 80.0 to 120 | 2.84 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 11:18

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: BC03965

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03972 | Chloride | mg/L | -0.0468 | 1.00 | 10.0 | 9.98 | 0.0149 | 10.2 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Fluoride | mg/L | -0.0149 | 0.125 | 2.50 | 2.63 | 0.00887 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 2.01 | -0.032 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC03971 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 610 | 51.0 | 40.0 to 60.0 | | | 0.654 | 10.0 |
| BC03972 | Sulfate | mg/L | 0.0572 | 2.0 | 20.0 | 21.0 | -0.0325 | 20.6 | 18.0 to 22.0 | 105 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19 DUP

Location Code: WMWGORAP
Collected: 2/22/22 11:18
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03966

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 09:44 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 11:47 | | 10.15 | 55.2 | mg/L | 0.70035 | 4.06 | | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 09:44 | | 1.015 | 0.447 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 09:44 | | 1.015 | 0.0269 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 09:44 | | 1.015 | 16.6 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 09:44 | | 1 | 21.4 | mg/L | | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 09:44 | | 1.015 | 10.0 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 11:47 | | 10.15 | 43.0 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/25/22 14:30 | 3/1/22 10:08 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 2/25/22 14:30 | 3/1/22 12:09 | | 20.3 | 53.5 | mg/L | 1.4007 | 8.12 | RA | |
| * Iron, Dissolved | 2/25/22 14:30 | 3/1/22 10:08 | | 1.015 | 0.441 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/25/22 14:30 | 3/1/22 10:08 | | 1.015 | 0.0258 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/25/22 14:30 | 3/1/22 10:08 | | 1.015 | 16.3 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/25/22 14:30 | 3/1/22 10:08 | | 1 | 21.2 | mg/L | | | | |
| Silicon, Dissolved | 2/25/22 14:30 | 3/1/22 10:08 | | 1.015 | 9.89 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/25/22 14:30 | 3/1/22 12:09 | | 20.3 | 43.2 | mg/L | 0.609 | 8.12 | RA | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | 0.00918 | mg/L | 0.004060 | 0.01015 | J | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | 0.000814 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | 0.336 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | 0.000443 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | 0.0276 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | 0.00250 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | 1.84 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19 DUP

Location Code: WMWGORAP
Collected: 2/22/22 11:18
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03966

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 17:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | 0.000849 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | 0.335 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | 0.0267 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | 0.00260 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | 1.84 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 12:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:48 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:45 | 2/25/22 12:45 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 305 | mg/L | | 0.10 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 303 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 302 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 2.65 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/4/22 12:29 | 3/4/22 12:29 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19 DUP

Location Code: WMWGORAP

Collected: 2/22/22 11:18

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03966

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:08 | 2/24/22 15:08 | | 1 | 4.82 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:07 | 2/25/22 10:07 | | 1 | 0.240 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 10:05 | 3/2/22 10:05 | | 1 | 13.6 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/22/22 11:15 | 2/22/22 11:15 | | | 597.93 | uS/cm | | | FA |
| pH | 2/22/22 11:15 | 2/22/22 11:15 | | | 7.71 | SU | | | FA |
| Temperature | 2/22/22 11:15 | 2/22/22 11:15 | | | 18.62 | C | | | FA |
| Turbidity | 2/22/22 11:15 | 2/22/22 11:15 | | | 0.82 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 11:18

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-19 DUP

Laboratory ID Number: BC03966

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03973 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.107 | 0.104 | 0.0988 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.0970 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.514 | 20.0 |
| BC03973 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0971 | 0.0934 | 0.0893 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 3.88 | 20.0 |
| BC03972 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0868 | 0.0888 | 0.0926 | 0.0850 to 0.115 | 86.8 | 70.0 to 130 | 2.28 | 20.0 |
| BC03973 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.107 | 0.104 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.0950 | 0.0969 | 0.0993 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.98 | 20.0 |
| BC03973 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.181 | 0.175 | 0.0960 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.37 | 20.0 |
| BC03972 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.0933 | 0.0947 | 0.0959 | 0.0850 to 0.115 | 93.3 | 70.0 to 130 | 1.49 | 20.0 |
| BC03973 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0960 | 0.0992 | 0.0920 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 3.28 | 20.0 |
| BC03972 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.102 | 0.107 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 4.78 | 20.0 |
| BC03966 | Boron, Dissolved | mg/L | -0.000179 | 0.0650 | 1.00 | 1.02 | 1.03 | 0.993 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC03972 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 0.955 | 0.976 | 0.993 | 0.850 to 1.15 | 95.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC03973 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.0965 | 0.100 | 0.0986 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 3.56 | 20.0 |
| BC03972 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0946 | 0.0967 | 0.0984 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 2.20 | 20.0 |
| BC03966 | Calcium, Dissolved | mg/L | -0.00563 | 0.152 | 5.00 | 62.6 | 60.2 | 4.84 | 4.25 to 5.75 | 182 | 70.0 to 130 | 3.91 | 20.0 |
| BC03972 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 4.74 | 4.72 | 4.80 | 4.25 to 5.75 | 94.8 | 70.0 to 130 | 0.423 | 20.0 |
| BC03973 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.102 | 0.0985 | 0.0994 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.49 | 20.0 |
| BC03972 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0962 | 0.0994 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 0.835 | 20.0 |
| BC03973 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.104 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC03972 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0991 | 0.0997 | 0.102 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.604 | 20.0 |
| BC03966 | Iron, Dissolved | mg/L | 0.00221 | 0.0176 | 0.2 | 0.639 | 0.633 | 0.203 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 0.943 | 20.0 |
| BC03972 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.190 | 0.193 | 0.195 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 1.57 | 20.0 |
| BC03973 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 11:18

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-19 DUP

Laboratory ID Number: BC03966

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03972 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03966 | Lithium, Dissolved | mg/L | 0.000133 | 0.0154 | 0.200 | 0.224 | 0.222 | 0.198 | 0.170 to 0.230 | 99.1 | 70.0 to 130 | 0.897 | 20.0 |
| BC03972 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.199 | 0.203 | 0.206 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 1.99 | 20.0 |
| BC03966 | Magnesium, Dissolved | mg/L | 0.000702 | 0.0462 | 5.00 | 21.6 | 21.3 | 5.11 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.40 | 20.0 |
| BC03972 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.02 | 5.06 | 5.17 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.794 | 20.0 |
| BC03973 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.243 | 0.238 | 0.102 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.08 | 20.0 |
| BC03972 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.0980 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |
| BC03972 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00356 | 0.00383 | 0.00393 | 0.00340 to 0.00460 | 89.0 | 70.0 to 130 | 7.31 | 20.0 |
| BC03973 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0995 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.00 | 20.0 |
| BC03972 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.0934 | 0.0956 | 0.0997 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 2.33 | 20.0 |
| BC03973 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 12.2 | 12.2 | 9.90 | 8.50 to 11.5 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 9.69 | 9.60 | 9.89 | 8.50 to 11.5 | 96.9 | 70.0 to 130 | 0.933 | 20.0 |
| BC03973 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.103 | 0.101 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC03972 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0969 | 0.100 | 0.102 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 |
| BC03966 | Silicon, Dissolved | mg/L | 0.000469 | 0.0440 | 1.00 | 10.9 | 10.9 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 0.977 | 0.994 | 1.00 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 1.73 | 20.0 |
| BC03966 | Sodium, Dissolved | mg/L | -0.00274 | 0.0660 | 5.00 | 50.9 | 49.0 | 5.09 | 4.25 to 5.75 | 154 | 70.0 to 130 | 3.80 | 20.0 |
| BC03972 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 4.97 | 5.11 | 5.18 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 2.78 | 20.0 |
| BC03973 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.102 | 0.100 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC04376 | Total Organic Carbon | mg/L | 0.270 | 1.00 | 10.0 | 10.7 | 10.4 | 9.67 | | 92.9 | 80.0 to 120 | 2.84 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 11:18

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-19 DUP

Laboratory ID Number: BC03966

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03972 | Chloride | mg/L | -0.0468 | 1.00 | 10.0 | 9.98 | 0.0149 | 10.2 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Fluoride | mg/L | -0.0149 | 0.125 | 2.50 | 2.63 | 0.00887 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 2.01 | -0.032 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC03971 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 610 | 51.0 | 40.0 to 60.0 | | | 0.654 | 10.0 |
| BC03972 | Sulfate | mg/L | 0.0572 | 2.0 | 20.0 | 21.0 | -0.0325 | 20.6 | 18.0 to 22.0 | 105 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-2

Location Code: WMWGORAP
Collected: 2/22/22 13:17
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03967

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 09:46 | | 1.015 | 0.112 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 09:46 | | 1.015 | 0.413 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 09:46 | | 1.015 | 0.0369 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 09:46 | | 1.015 | 0.0354 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 09:46 | | 1.015 | 0.120 | mg/L | 0.021315 | 0.406 | J |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 09:46 | | 1 | 11.0 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 09:46 | | 1.015 | 5.12 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 11:49 | | 10.15 | 132 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 10:49 | | 1.015 | 0.112 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 10:49 | | 1.015 | 0.439 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 10:49 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 10:49 | | 1.015 | 0.0336 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 10:49 | | 1.015 | 0.108 | mg/L | 0.021315 | 0.406 | J |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 10:49 | | 1 | 10.7 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 10:49 | | 1.015 | 5.00 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 12:27 | | 10.15 | 128 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | 0.125 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | 0.0501 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | 0.000443 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | 0.000807 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | 0.00327 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | 0.376 | mg/L | 0.169505 | 0.5075 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-2

Location Code: WMWGORAP

Collected: 2/22/22 13:17

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03967

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 17:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | 0.00513 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | 0.0511 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | 0.000678 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | 0.00328 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | 0.341 | mg/L | 0.169505 | 0.5075 | J |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 13:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:52 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:47 | 2/25/22 12:47 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 264 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 295 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 202 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 60.1 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/4/22 12:48 | 3/4/22 12:48 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-2

Location Code: WMWGORAP

Collected: 2/22/22 13:17

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03967

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:09 | 2/24/22 15:09 | | 1 | 6.05 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:08 | 2/25/22 10:08 | | 1 | 0.819 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 10:07 | 3/2/22 10:07 | | 1 | 17.1 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/22/22 13:13 | 2/22/22 13:13 | | | 578.43 | uS/cm | | | FA |
| pH | 2/22/22 13:13 | 2/22/22 13:13 | | | 9.42 | SU | | | FA |
| Temperature | 2/22/22 13:13 | 2/22/22 13:13 | | | 19.12 | C | | | FA |
| Turbidity | 2/22/22 13:13 | 2/22/22 13:13 | | | 1.62 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:17

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: BC03967

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03973 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.107 | 0.104 | 0.0988 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.0970 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.514 | 20.0 |
| BC03973 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0971 | 0.0934 | 0.0893 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 3.88 | 20.0 |
| BC03972 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0868 | 0.0888 | 0.0926 | 0.0850 to 0.115 | 86.8 | 70.0 to 130 | 2.28 | 20.0 |
| BC03973 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.107 | 0.104 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.0950 | 0.0969 | 0.0993 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.98 | 20.0 |
| BC03973 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.181 | 0.175 | 0.0960 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.37 | 20.0 |
| BC03972 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.0933 | 0.0947 | 0.0959 | 0.0850 to 0.115 | 93.3 | 70.0 to 130 | 1.49 | 20.0 |
| BC03973 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0960 | 0.0992 | 0.0920 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 3.28 | 20.0 |
| BC03972 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.102 | 0.107 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 4.78 | 20.0 |
| BC04380 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 0.997 | 1.03 | 0.991 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03972 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 0.955 | 0.976 | 0.993 | 0.850 to 1.15 | 95.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC03973 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.0965 | 0.100 | 0.0986 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 3.56 | 20.0 |
| BC03972 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0946 | 0.0967 | 0.0984 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 2.20 | 20.0 |
| BC04380 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 45.5 | 46.0 | 4.95 | 4.25 to 5.75 | 90.0 | 70.0 to 130 | 1.09 | 20.0 |
| BC03972 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 4.74 | 4.72 | 4.80 | 4.25 to 5.75 | 94.8 | 70.0 to 130 | 0.423 | 20.0 |
| BC03973 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.102 | 0.0985 | 0.0994 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.49 | 20.0 |
| BC03972 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0962 | 0.0994 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 0.835 | 20.0 |
| BC03973 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.104 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC03972 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0991 | 0.0997 | 0.102 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.604 | 20.0 |
| BC04380 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 0.550 | 0.561 | 0.196 | 0.170 to 0.230 | 90.5 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.190 | 0.193 | 0.195 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 1.57 | 20.0 |
| BC03973 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/22/22 13:17
Customer ID:
Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: BC03967

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03972 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC04380 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.198 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 0.436 | 20.0 |
| BC03972 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.199 | 0.203 | 0.206 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 1.99 | 20.0 |
| BC04380 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 21.0 | 21.2 | 5.16 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.948 | 20.0 |
| BC03972 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.02 | 5.06 | 5.17 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.794 | 20.0 |
| BC03973 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.243 | 0.238 | 0.102 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.08 | 20.0 |
| BC03972 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.0980 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |
| BC03972 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00356 | 0.00383 | 0.00393 | 0.00340 to 0.00460 | 89.0 | 70.0 to 130 | 7.31 | 20.0 |
| BC03973 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0995 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.00 | 20.0 |
| BC03972 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.0934 | 0.0956 | 0.0997 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 2.33 | 20.0 |
| BC03973 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 12.2 | 12.2 | 9.90 | 8.50 to 11.5 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 9.69 | 9.60 | 9.89 | 8.50 to 11.5 | 96.9 | 70.0 to 130 | 0.933 | 20.0 |
| BC03973 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.103 | 0.101 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC03972 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0969 | 0.100 | 0.102 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 |
| BC04380 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.5 | 12.7 | 0.998 | 0.850 to 1.15 | 70.0 | 70.0 to 130 | 1.59 | 20.0 |
| BC03972 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 0.977 | 0.994 | 1.00 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 1.73 | 20.0 |
| BC04380 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 45.0 | 45.3 | 4.98 | 4.25 to 5.75 | 84.0 | 70.0 to 130 | 0.664 | 20.0 |
| BC03972 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 4.97 | 5.11 | 5.18 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 2.78 | 20.0 |
| BC03973 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.102 | 0.100 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC04376 | Total Organic Carbon | mg/L | 0.270 | 1.00 | 10.0 | 10.7 | 10.4 | 9.67 | | 92.9 | 80.0 to 120 | 2.84 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:17

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: BC03967

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03972 | Chloride | mg/L | -0.0468 | 1.00 | 10.0 | 9.98 | 0.0149 | 10.2 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Fluoride | mg/L | -0.0149 | 0.125 | 2.50 | 2.63 | 0.00887 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 2.01 | -0.032 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC03971 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 610 | 51.0 | 40.0 to 60.0 | | | 0.654 | 10.0 |
| BC03972 | Sulfate | mg/L | 0.0572 | 2.0 | 20.0 | 21.0 | -0.0325 | 20.6 | 18.0 to 22.0 | 105 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12V

Location Code: WMWGORAP
Collected: 2/23/22 12:33
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03968

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 09:48 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 11:51 | | 10.15 | 46.3 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 09:48 | | 1.015 | 0.849 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 09:48 | | 1.015 | 0.0279 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 09:48 | | 1.015 | 11.6 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 09:48 | | 1 | 28.5 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 09:48 | | 1.015 | 13.3 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 09:48 | | 1.015 | 17.2 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 10:51 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 12:28 | | 10.15 | 45.6 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 10:51 | | 1.015 | 0.459 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 10:51 | | 1.015 | 0.0269 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 10:51 | | 1.015 | 11.7 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 10:51 | | 1 | 28.5 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 10:51 | | 1.015 | 13.3 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 10:51 | | 1.015 | 16.6 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | 0.000555 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | 0.236 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | 0.00102 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 3/11/22 11:30 | | 5.075 | 1.34 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | 0.000607 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | 0.000127 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | 0.000190 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | 0.0432 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | 0.00144 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | 2.26 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12V

Location Code: WMWGORAP
Collected: 2/23/22 12:33
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03968

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 17:08 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | 0.00100 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/11/22 11:26 | | 5.075 | 1.30 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | 0.0393 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | 0.00126 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | 2.12 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 13:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 21:56 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:48 | 2/25/22 12:48 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 208 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 209 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 207 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 1.28 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/4/22 13:08 | 3/4/22 13:08 | | 1 | 1.38 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12V

Location Code: WMWGORAP

Collected: 2/23/22 12:33

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03968

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:10 | 2/24/22 15:10 | | 1 | 3.83 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:10 | 2/25/22 10:10 | | 1 | 0.153 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 10:08 | 3/2/22 10:08 | | 1 | 0.741 | mg/L | 0.50 | 1 | J |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/23/22 12:29 | 2/23/22 12:29 | | | 309.69 | uS/cm | | | FA |
| pH | 2/23/22 12:29 | 2/23/22 12:29 | | | 7.73 | SU | | | FA |
| Temperature | 2/23/22 12:29 | 2/23/22 12:29 | | | 17.55 | C | | | FA |
| Turbidity | 2/23/22 12:29 | 2/23/22 12:29 | | | 9.83 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 12:33

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: BC03968

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03973 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.107 | 0.104 | 0.0988 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.0970 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.514 | 20.0 |
| BC03973 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0971 | 0.0934 | 0.0893 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 3.88 | 20.0 |
| BC03972 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0868 | 0.0888 | 0.0926 | 0.0850 to 0.115 | 86.8 | 70.0 to 130 | 2.28 | 20.0 |
| BC03973 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.107 | 0.104 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.0950 | 0.0969 | 0.0993 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.98 | 20.0 |
| BC03973 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.181 | 0.175 | 0.0960 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.37 | 20.0 |
| BC03972 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.0933 | 0.0947 | 0.0959 | 0.0850 to 0.115 | 93.3 | 70.0 to 130 | 1.49 | 20.0 |
| BC03973 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0960 | 0.0992 | 0.0920 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 3.28 | 20.0 |
| BC03972 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.102 | 0.107 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 4.78 | 20.0 |
| BC04380 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 0.997 | 1.03 | 0.991 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03972 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 0.955 | 0.976 | 0.993 | 0.850 to 1.15 | 95.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC03973 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.0965 | 0.100 | 0.0986 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 3.56 | 20.0 |
| BC03972 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0946 | 0.0967 | 0.0984 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 2.20 | 20.0 |
| BC04380 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 45.5 | 46.0 | 4.95 | 4.25 to 5.75 | 90.0 | 70.0 to 130 | 1.09 | 20.0 |
| BC03972 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 4.74 | 4.72 | 4.80 | 4.25 to 5.75 | 94.8 | 70.0 to 130 | 0.423 | 20.0 |
| BC03973 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.102 | 0.0985 | 0.0994 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.49 | 20.0 |
| BC03972 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0962 | 0.0994 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 0.835 | 20.0 |
| BC03973 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.104 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC03972 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0991 | 0.0997 | 0.102 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.604 | 20.0 |
| BC04380 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 0.550 | 0.561 | 0.196 | 0.170 to 0.230 | 90.5 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.190 | 0.193 | 0.195 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 1.57 | 20.0 |
| BC03973 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 12:33

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: BC03968

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03972 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC04380 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.198 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 0.436 | 20.0 |
| BC03972 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.199 | 0.203 | 0.206 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 1.99 | 20.0 |
| BC04380 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 21.0 | 21.2 | 5.16 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.948 | 20.0 |
| BC03972 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.02 | 5.06 | 5.17 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.794 | 20.0 |
| BC03973 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.243 | 0.238 | 0.102 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.08 | 20.0 |
| BC03972 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.0980 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |
| BC03972 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00356 | 0.00383 | 0.00393 | 0.00340 to 0.00460 | 89.0 | 70.0 to 130 | 7.31 | 20.0 |
| BC03973 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0995 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.00 | 20.0 |
| BC03972 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.0934 | 0.0956 | 0.0997 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 2.33 | 20.0 |
| BC03973 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 12.2 | 12.2 | 9.90 | 8.50 to 11.5 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 9.69 | 9.60 | 9.89 | 8.50 to 11.5 | 96.9 | 70.0 to 130 | 0.933 | 20.0 |
| BC03973 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.103 | 0.101 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC03972 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0969 | 0.100 | 0.102 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 |
| BC04380 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.5 | 12.7 | 0.998 | 0.850 to 1.15 | 70.0 | 70.0 to 130 | 1.59 | 20.0 |
| BC03972 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 0.977 | 0.994 | 1.00 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 1.73 | 20.0 |
| BC04380 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 45.0 | 45.3 | 4.98 | 4.25 to 5.75 | 84.0 | 70.0 to 130 | 0.664 | 20.0 |
| BC03972 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 4.97 | 5.11 | 5.18 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 2.78 | 20.0 |
| BC03973 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.102 | 0.100 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC04376 | Total Organic Carbon | mg/L | 0.270 | 1.00 | 10.0 | 10.7 | 10.4 | 9.67 | | 92.9 | 80.0 to 120 | 2.84 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 12:33

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: BC03968

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC04380 | Alkalinity, Total as CaCO3 | mg/L | | | | | 234 | 51.4 | 45.0 to 55.0 | | | 8.00 | 10.0 |
| BC03972 | Chloride | mg/L | -0.0468 | 1.00 | 10.0 | 9.98 | 0.0149 | 10.2 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Fluoride | mg/L | -0.0149 | 0.125 | 2.50 | 2.63 | 0.00887 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 2.01 | -0.032 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC03971 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 610 | 51.0 | 40.0 to 60.0 | | | 0.654 | 10.0 |
| BC03972 | Sulfate | mg/L | 0.0572 | 2.0 | 20.0 | 21.0 | -0.0325 | 20.6 | 18.0 to 22.0 | 105 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-5

Location Code: WMWGORAPFB
Collected: 2/23/22 13:30
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03969

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 09:49 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 09:49 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 09:49 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 09:49 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 09:49 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 09:49 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 09:49 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 09:49 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | 0.000165 | mg/L | 0.000102 | 0.000203 | J |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 17:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: ABB | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 22:00 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: ELH | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:50 | 2/25/22 12:50 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-5

Location Code: WMWGORAPFB

Collected: 2/23/22 13:30

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03969

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/4/22 13:27 | 3/4/22 13:27 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:14 | 2/24/22 15:14 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:11 | 2/25/22 10:11 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 10:11 | 3/2/22 10:11 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/23/22 13:30

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond Field Blank-5

Laboratory ID Number: BC03969

| Sample | Analysis | Units | MB | | | | Standard | | Rec | | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|----------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03972 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.0970 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.514 | 20.0 |
| BC03972 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0868 | 0.0888 | 0.0926 | 0.0850 to 0.115 | 86.8 | 70.0 to 130 | 2.28 | 20.0 |
| BC03972 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.0950 | 0.0969 | 0.0993 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.0933 | 0.0947 | 0.0959 | 0.0850 to 0.115 | 93.3 | 70.0 to 130 | 1.49 | 20.0 |
| BC03972 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.102 | 0.107 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 4.78 | 20.0 |
| BC03972 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 0.955 | 0.976 | 0.993 | 0.850 to 1.15 | 95.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC03972 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0946 | 0.0967 | 0.0984 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 2.20 | 20.0 |
| BC03972 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 4.74 | 4.72 | 4.80 | 4.25 to 5.75 | 94.8 | 70.0 to 130 | 0.423 | 20.0 |
| BC03972 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0962 | 0.0994 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 0.835 | 20.0 |
| BC03972 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0991 | 0.0997 | 0.102 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.604 | 20.0 |
| BC03972 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.190 | 0.193 | 0.195 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 1.57 | 20.0 |
| BC03972 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03972 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.199 | 0.203 | 0.206 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 1.99 | 20.0 |
| BC03972 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.02 | 5.06 | 5.17 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.794 | 20.0 |
| BC03972 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.0980 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |
| BC03972 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00356 | 0.00383 | 0.00393 | 0.00340 to 0.00460 | 89.0 | 70.0 to 130 | 7.31 | 20.0 |
| BC03972 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.0934 | 0.0956 | 0.0997 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 2.33 | 20.0 |
| BC03972 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 9.69 | 9.60 | 9.89 | 8.50 to 11.5 | 96.9 | 70.0 to 130 | 0.933 | 20.0 |
| BC03972 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0969 | 0.100 | 0.102 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 |
| BC03972 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 0.977 | 0.994 | 1.00 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 1.73 | 20.0 |
| BC03972 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 4.97 | 5.11 | 5.18 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 2.78 | 20.0 |
| BC03972 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC04376 | Total Organic Carbon | mg/L | 0.270 | 1.00 | 10.0 | 10.7 | 10.4 | 9.67 | | 92.9 | 80.0 to 120 | 2.84 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/23/22 13:30

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond Field Blank-5

Laboratory ID Number: BC03969

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | MSD | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/23/22 13:30

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond Field Blank-5

Laboratory ID Number: BC03969

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|-------|---------------|
| BC03972 | Chloride | mg/L | -0.0468 | 1.00 | 10.0 | 9.98 | 0.0149 | 10.2 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Fluoride | mg/L | -0.0149 | 0.125 | 2.50 | 2.63 | 0.00887 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 2.01 | -0.032 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC03971 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 610 | 51.0 | 40.0 to 60.0 | | | 0.654 | 10.0 |
| BC03972 | Sulfate | mg/L | 0.0572 | 2.0 | 20.0 | 21.0 | -0.0325 | 20.6 | 18.0 to 22.0 | 105 | 80.0 to 120 | 0.00 | 20.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31V

Location Code: WMWGORAP
Collected: 2/22/22 13:07
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03970

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 09:51 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 09:51 | | 1.015 | 7.58 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 09:51 | | 1.015 | 0.190 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 09:51 | | 1.015 | 0.0316 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 09:51 | | 1.015 | 2.29 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 09:51 | | 1 | 16.2 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 09:51 | | 1.015 | 7.55 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 11:53 | | 10.15 | 151 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 10:53 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 10:53 | | 1.015 | 7.38 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 10:53 | | 1.015 | 0.103 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 10:53 | | 1.015 | 0.0313 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 10:53 | | 1.015 | 2.20 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 10:53 | | 1 | 16.1 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 10:53 | | 1.015 | 7.51 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 12:30 | | 10.15 | 148 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | 0.0943 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | 0.00110 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | 0.238 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | 0.000346 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | 0.0000698 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | 0.000280 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | 0.0272 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | 0.00536 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | 7.57 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31V

Location Code: WMWGORAP
Collected: 2/22/22 13:07
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03970

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 17:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | 0.00674 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | 0.00112 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | 0.245 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | 0.0278 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | 0.00524 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | 7.57 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 13:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 22:04 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:52 | 2/25/22 12:52 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 307 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 406 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 303 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/4/22 10:30 | 3/4/22 12:34 | | 1 | 3.84 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/4/22 13:44 | 3/4/22 13:44 | | 1 | 1.50 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31V

Location Code: WMWGORAP

Collected: 2/22/22 13:07

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03970

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:20 | 2/24/22 15:20 | | 3 | 32.1 | mg/L | 1.50 | 3 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:12 | 2/25/22 10:12 | | 1 | 0.179 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 10:09 | 3/2/22 10:09 | | 1 | 26.2 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 2/22/22 13:04 | 2/22/22 13:04 | | | 674.70 | uS/cm | | | FA |
| pH | 2/22/22 13:04 | 2/22/22 13:04 | | | 8.00 | SU | | | FA |
| Temperature | 2/22/22 13:04 | 2/22/22 13:04 | | | 18.03 | C | | | FA |
| Turbidity | 2/22/22 13:04 | 2/22/22 13:04 | | | 3.06 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:07

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-31V

Laboratory ID Number: BC03970

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03973 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.107 | 0.104 | 0.0988 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.0970 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.514 | 20.0 |
| BC03973 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0971 | 0.0934 | 0.0893 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 3.88 | 20.0 |
| BC03972 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0868 | 0.0888 | 0.0926 | 0.0850 to 0.115 | 86.8 | 70.0 to 130 | 2.28 | 20.0 |
| BC03973 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.107 | 0.104 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03972 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.0950 | 0.0969 | 0.0993 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.98 | 20.0 |
| BC03973 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.181 | 0.175 | 0.0960 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.37 | 20.0 |
| BC03972 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.0933 | 0.0947 | 0.0959 | 0.0850 to 0.115 | 93.3 | 70.0 to 130 | 1.49 | 20.0 |
| BC03973 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0960 | 0.0992 | 0.0920 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 3.28 | 20.0 |
| BC03972 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.102 | 0.107 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 4.78 | 20.0 |
| BC04380 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 0.997 | 1.03 | 0.991 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC03972 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 0.955 | 0.976 | 0.993 | 0.850 to 1.15 | 95.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC03973 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.0965 | 0.100 | 0.0986 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 3.56 | 20.0 |
| BC03972 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0946 | 0.0967 | 0.0984 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 2.20 | 20.0 |
| BC04380 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 45.5 | 46.0 | 4.95 | 4.25 to 5.75 | 90.0 | 70.0 to 130 | 1.09 | 20.0 |
| BC03972 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 4.74 | 4.72 | 4.80 | 4.25 to 5.75 | 94.8 | 70.0 to 130 | 0.423 | 20.0 |
| BC03973 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.102 | 0.0985 | 0.0994 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.49 | 20.0 |
| BC03972 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0962 | 0.0994 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 0.835 | 20.0 |
| BC03973 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.104 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC03972 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0991 | 0.0997 | 0.102 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.604 | 20.0 |
| BC04380 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 0.550 | 0.561 | 0.196 | 0.170 to 0.230 | 90.5 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.190 | 0.193 | 0.195 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 1.57 | 20.0 |
| BC03973 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:07

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-31V

Laboratory ID Number: BC03970

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03972 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC04380 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.198 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 0.436 | 20.0 |
| BC03972 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.199 | 0.203 | 0.206 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 1.99 | 20.0 |
| BC04380 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 21.0 | 21.2 | 5.16 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.948 | 20.0 |
| BC03972 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.02 | 5.06 | 5.17 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.794 | 20.0 |
| BC03973 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.243 | 0.238 | 0.102 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.08 | 20.0 |
| BC03972 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.0980 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |
| BC03972 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00356 | 0.00383 | 0.00393 | 0.00340 to 0.00460 | 89.0 | 70.0 to 130 | 7.31 | 20.0 |
| BC03973 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0995 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.00 | 20.0 |
| BC03972 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.0934 | 0.0956 | 0.0997 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 2.33 | 20.0 |
| BC03973 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 12.2 | 12.2 | 9.90 | 8.50 to 11.5 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 9.69 | 9.60 | 9.89 | 8.50 to 11.5 | 96.9 | 70.0 to 130 | 0.933 | 20.0 |
| BC03973 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.103 | 0.101 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC03972 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0969 | 0.100 | 0.102 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 |
| BC04380 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.5 | 12.7 | 0.998 | 0.850 to 1.15 | 70.0 | 70.0 to 130 | 1.59 | 20.0 |
| BC03972 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 0.977 | 0.994 | 1.00 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 1.73 | 20.0 |
| BC04380 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 45.0 | 45.3 | 4.98 | 4.25 to 5.75 | 84.0 | 70.0 to 130 | 0.664 | 20.0 |
| BC03972 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 4.97 | 5.11 | 5.18 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 2.78 | 20.0 |
| BC03973 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.102 | 0.100 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC04376 | Total Organic Carbon | mg/L | 0.270 | 1.00 | 10.0 | 10.7 | 10.4 | 9.67 | | 92.9 | 80.0 to 120 | 2.84 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/22/22 13:07

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-31V

Laboratory ID Number: BC03970

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC03970 | Alkalinity, Total as CaCO3 | mg/L | | | | | 312 | 51.5 | 45.0 to 55.0 | | | 1.62 | 10.0 |
| BC03972 | Chloride | mg/L | -0.0468 | 1.00 | 10.0 | 9.98 | 0.0149 | 10.2 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Fluoride | mg/L | -0.0149 | 0.125 | 2.50 | 2.63 | 0.00887 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 2.01 | -0.032 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC03971 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 610 | 51.0 | 40.0 to 60.0 | | | 0.654 | 10.0 |
| BC03972 | Sulfate | mg/L | 0.0572 | 2.0 | 20.0 | 21.0 | -0.0325 | 20.6 | 18.0 to 22.0 | 105 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-46

Location Code: WMWGORAP
Collected: 2/23/22 10:30
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03971

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 09:53 | | 1.015 | 0.768 | mg/L | 0.030000 | 0.1015 | | |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 09:53 | | 1.015 | 1.20 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 09:53 | | 1.015 | 0.0105 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 09:53 | | 1.015 | 0.0653 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 09:53 | | 1.015 | 0.409 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 09:53 | | 1 | 9.67 | mg/L | | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 09:53 | | 1.015 | 4.52 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 11:55 | | 10.15 | 245 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 11:23 | | 1.015 | 0.765 | mg/L | 0.029557 | 0.1 | | |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 11:23 | | 1.015 | 1.23 | mg/L | 0.069 | 0.4 | | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 11:23 | | 1.015 | Not Detected | mg/L | 0.008 | 0.04 | U | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 11:23 | | 1.015 | 0.0629 | mg/L | 0.007 | 0.019704 | | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 11:23 | | 1.015 | 0.391 | mg/L | 0.021 | 0.4 | J | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 11:23 | | 1 | 9.59 | mg/L | | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 11:23 | | 1.015 | 4.48 | mg/L | 0.02 | 0.25 | | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 12:32 | | 10.15 | 223 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | 0.0147 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | 0.105 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | 0.0652 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U | |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | 0.00132 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | 0.00678 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | 0.609 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-46

Location Code: WMWGORAP
Collected: 2/23/22 10:30
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03971

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 17:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | 0.0106 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | 0.0824 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | 0.0718 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | 0.00132 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | 0.00512 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | 0.628 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 13:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 22:08 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:54 | 2/25/22 12:54 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 206 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | 614 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 202 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 4.24 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/4/22 14:01 | 3/4/22 14:01 | | 1 | 1.56 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-46

Location Code: WMWGORAP

Collected: 2/23/22 10:30

Customer ID:

Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03971

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:21 | 2/24/22 15:21 | | 4 | 43.9 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:13 | 2/25/22 10:13 | | 1 | 0.226 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 10:16 | 3/2/22 10:16 | | 20 | 317 | mg/L | 10.00 | 20 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 2/23/22 10:27 | 2/23/22 10:27 | | | 962.02 | uS/cm | | | FA |
| pH | 2/23/22 10:27 | 2/23/22 10:27 | | | 8.69 | SU | | | FA |
| Temperature | 2/23/22 10:27 | 2/23/22 10:27 | | | 17.16 | C | | | FA |
| Turbidity | 2/23/22 10:27 | 2/23/22 10:27 | | | 0.71 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 10:30

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-46

Laboratory ID Number: BC03971

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC03973 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.107 | 0.104 | 0.0988 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 | |
| BC03972 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.0970 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.514 | 20.0 | |
| BC03973 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0971 | 0.0934 | 0.0893 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 3.88 | 20.0 | |
| BC03972 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0868 | 0.0888 | 0.0926 | 0.0850 to 0.115 | 86.8 | 70.0 to 130 | 2.28 | 20.0 | |
| BC03973 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.107 | 0.104 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 | |
| BC03972 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.0950 | 0.0969 | 0.0993 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.98 | 20.0 | |
| BC03973 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.181 | 0.175 | 0.0960 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.37 | 20.0 | |
| BC03972 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.0933 | 0.0947 | 0.0959 | 0.0850 to 0.115 | 93.3 | 70.0 to 130 | 1.49 | 20.0 | |
| BC03973 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0960 | 0.0992 | 0.0920 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 3.28 | 20.0 | |
| BC03972 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.102 | 0.107 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 4.78 | 20.0 | |
| BC04380 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 0.997 | 1.03 | 0.991 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 3.26 | 20.0 | |
| BC03972 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 0.955 | 0.976 | 0.993 | 0.850 to 1.15 | 95.5 | 70.0 to 130 | 2.18 | 20.0 | |
| BC03973 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.0965 | 0.100 | 0.0986 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 3.56 | 20.0 | |
| BC03972 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0946 | 0.0967 | 0.0984 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 2.20 | 20.0 | |
| BC04380 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 45.5 | 46.0 | 4.95 | 4.25 to 5.75 | 90.0 | 70.0 to 130 | 1.09 | 20.0 | |
| BC03972 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 4.74 | 4.72 | 4.80 | 4.25 to 5.75 | 94.8 | 70.0 to 130 | 0.423 | 20.0 | |
| BC03973 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.102 | 0.0985 | 0.0994 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.49 | 20.0 | |
| BC03972 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0962 | 0.0994 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 0.835 | 20.0 | |
| BC03973 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.104 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 | |
| BC03972 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0991 | 0.0997 | 0.102 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.604 | 20.0 | |
| BC04380 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 0.550 | 0.561 | 0.196 | 0.170 to 0.230 | 90.5 | 70.0 to 130 | 1.98 | 20.0 | |
| BC03972 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.190 | 0.193 | 0.195 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 1.57 | 20.0 | |
| BC03973 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 | |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 10:30

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-46

Laboratory ID Number: BC03971

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03972 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC04380 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.198 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 0.436 | 20.0 |
| BC03972 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.199 | 0.203 | 0.206 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 1.99 | 20.0 |
| BC04380 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 21.0 | 21.2 | 5.16 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.948 | 20.0 |
| BC03972 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.02 | 5.06 | 5.17 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.794 | 20.0 |
| BC03973 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.243 | 0.238 | 0.102 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.08 | 20.0 |
| BC03972 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.0980 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |
| BC03972 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00356 | 0.00383 | 0.00393 | 0.00340 to 0.00460 | 89.0 | 70.0 to 130 | 7.31 | 20.0 |
| BC03973 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0995 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.00 | 20.0 |
| BC03972 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.0934 | 0.0956 | 0.0997 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 2.33 | 20.0 |
| BC03973 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 12.2 | 12.2 | 9.90 | 8.50 to 11.5 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03972 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 9.69 | 9.60 | 9.89 | 8.50 to 11.5 | 96.9 | 70.0 to 130 | 0.933 | 20.0 |
| BC03973 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.103 | 0.101 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC03972 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0969 | 0.100 | 0.102 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 |
| BC04380 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.5 | 12.7 | 0.998 | 0.850 to 1.15 | 70.0 | 70.0 to 130 | 1.59 | 20.0 |
| BC03972 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 0.977 | 0.994 | 1.00 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 1.73 | 20.0 |
| BC04380 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 45.0 | 45.3 | 4.98 | 4.25 to 5.75 | 84.0 | 70.0 to 130 | 0.664 | 20.0 |
| BC03972 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 4.97 | 5.11 | 5.18 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 2.78 | 20.0 |
| BC03973 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.102 | 0.100 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC04376 | Total Organic Carbon | mg/L | 0.270 | 1.00 | 10.0 | 10.7 | 10.4 | 9.67 | | 92.9 | 80.0 to 120 | 2.84 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 10:30

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-46

Laboratory ID Number: BC03971

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC04380 | Alkalinity, Total as CaCO3 | mg/L | | | | | 234 | 51.4 | 45.0 to 55.0 | | | 8.00 | 10.0 |
| BC03972 | Chloride | mg/L | -0.0468 | 1.00 | 10.0 | 9.98 | 0.0149 | 10.2 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Fluoride | mg/L | -0.0149 | 0.125 | 2.50 | 2.63 | 0.00887 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 2.01 | -0.032 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC03971 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 610 | 51.0 | 40.0 to 60.0 | | | 0.654 | 10.0 |
| BC03972 | Sulfate | mg/L | 0.0572 | 2.0 | 20.0 | 21.0 | -0.0325 | 20.6 | 18.0 to 22.0 | 105 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-4

Location Code: WMWGORAPFB
Collected: 2/23/22 11:00
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03972

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 09:55 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 09:55 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 09:55 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 09:55 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 09:55 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 09:55 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 09:55 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 09:55 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 17:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: ABB | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 22:12 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: ELH | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 12:56 | 2/25/22 12:56 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 2/24/22 11:28 | 2/28/22 09:55 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-4

Location Code: WMWGORAPFB
Collected: 2/23/22 11:00
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03972

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/4/22 14:19 | 3/4/22 14:19 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:15 | 2/24/22 15:15 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:15 | 2/25/22 10:15 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 10:12 | 3/2/22 10:12 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/23/22 11:00

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond Field Blank-4

Laboratory ID Number: BC03972

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC03972 | Aluminum, Total | mg/L | 0.000422 | 0.010 | 0.100 | 0.0970 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.514 | 20.0 |
| BC03972 | Antimony, Total | mg/L | 0.000597 | 0.00100 | 0.100 | 0.0868 | 0.0888 | 0.0926 | 0.0850 to 0.115 | 86.8 | 70.0 to 130 | 2.28 | 20.0 |
| BC03972 | Arsenic, Total | mg/L | 0.0000144 | 0.000176 | 0.100 | 0.0950 | 0.0969 | 0.0993 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.98 | 20.0 |
| BC03972 | Barium, Total | mg/L | -0.0000178 | 0.000200 | 0.100 | 0.0933 | 0.0947 | 0.0959 | 0.0850 to 0.115 | 93.3 | 70.0 to 130 | 1.49 | 20.0 |
| BC03972 | Beryllium, Total | mg/L | 0.000328 | 0.000880 | 0.100 | 0.102 | 0.107 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 4.78 | 20.0 |
| BC03972 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 0.955 | 0.976 | 0.993 | 0.850 to 1.15 | 95.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC03972 | Cadmium, Total | mg/L | 0.0000093 | 0.000147 | 0.100 | 0.0946 | 0.0967 | 0.0984 | 0.0850 to 0.115 | 94.6 | 70.0 to 130 | 2.20 | 20.0 |
| BC03972 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 4.74 | 4.72 | 4.80 | 4.25 to 5.75 | 94.8 | 70.0 to 130 | 0.423 | 20.0 |
| BC03972 | Chromium, Total | mg/L | -0.0000273 | 0.000440 | 0.100 | 0.0954 | 0.0962 | 0.0994 | 0.0850 to 0.115 | 95.4 | 70.0 to 130 | 0.835 | 20.0 |
| BC03972 | Cobalt, Total | mg/L | 0.0000306 | 0.000147 | 0.100 | 0.0991 | 0.0997 | 0.102 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.604 | 20.0 |
| BC03972 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.190 | 0.193 | 0.195 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 1.57 | 20.0 |
| BC03972 | Lead, Total | mg/L | 0.0000074 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC03972 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.199 | 0.203 | 0.206 | 0.170 to 0.230 | 99.5 | 70.0 to 130 | 1.99 | 20.0 |
| BC03972 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.02 | 5.06 | 5.17 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.794 | 20.0 |
| BC03972 | Manganese, Total | mg/L | -0.0000151 | 0.0002 | 0.100 | 0.0980 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |
| BC03972 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00356 | 0.00383 | 0.00393 | 0.00340 to 0.00460 | 89.0 | 70.0 to 130 | 7.31 | 20.0 |
| BC03972 | Molybdenum, Total | mg/L | 0.0000119 | 0.0002 | 0.100 | 0.0934 | 0.0956 | 0.0997 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 2.33 | 20.0 |
| BC03972 | Potassium, Total | mg/L | 0.0105 | 0.367 | 10.0 | 9.69 | 9.60 | 9.89 | 8.50 to 11.5 | 96.9 | 70.0 to 130 | 0.933 | 20.0 |
| BC03972 | Selenium, Total | mg/L | 0.0000516 | 0.00100 | 0.100 | 0.0969 | 0.100 | 0.102 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 3.15 | 20.0 |
| BC03972 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 0.977 | 0.994 | 1.00 | 0.850 to 1.15 | 97.7 | 70.0 to 130 | 1.73 | 20.0 |
| BC03972 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 4.97 | 5.11 | 5.18 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 2.78 | 20.0 |
| BC03972 | Thallium, Total | mg/L | 0.000009 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC04376 | Total Organic Carbon | mg/L | 0.270 | 1.00 | 10.0 | 10.7 | 10.4 | 9.67 | | 92.9 | 80.0 to 120 | 2.84 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/23/22 11:00

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond Field Blank-4

Laboratory ID Number: BC03972

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | MSD | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/23/22 11:00

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond Field Blank-4

Laboratory ID Number: BC03972

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|-------|---------------|
| BC03972 | Chloride | mg/L | -0.0468 | 1.00 | 10.0 | 9.98 | 0.0149 | 10.2 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Fluoride | mg/L | -0.0149 | 0.125 | 2.50 | 2.63 | 0.00887 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.00 | 20.0 |
| BC03972 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 2.01 | -0.032 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC03971 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 610 | 51.0 | 40.0 to 60.0 | | | 0.654 | 10.0 |
| BC03972 | Sulfate | mg/L | 0.0572 | 2.0 | 20.0 | 21.0 | -0.0325 | 20.6 | 18.0 to 22.0 | 105 | 80.0 to 120 | 0.00 | 20.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23V

Location Code: WMWGORAP
Collected: 2/23/22 13:33
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03973

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:04 | | 1.015 | 0.0919 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 11:57 | | 10.15 | 152 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:04 | | 1.015 | 0.777 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:04 | | 1.015 | 0.0410 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:04 | | 1.015 | 39.9 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:04 | | 1 | 30.0 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:04 | | 1.015 | 14.0 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 11:57 | | 10.15 | 48.3 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 10:57 | | 1.015 | 0.0973 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 12:34 | | 10.15 | 140 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 10:57 | | 1.015 | 0.325 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 10:57 | | 1.015 | 0.0408 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 10:57 | | 1.015 | 39.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 10:57 | | 1 | 29.3 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 10:57 | | 1.015 | 13.7 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 12:34 | | 10.15 | 44.2 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | 0.295 | mg/L | 0.004060 | 0.01015 | R |
| * Arsenic, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | 0.000161 | mg/L | 0.000068 | 0.000203 | J |
| * Barium, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | 0.0812 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | 0.000663 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | 0.000203 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | 0.000208 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | 0.139 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | 0.000132 | mg/L | 0.000068 | 0.000203 | J |
| * Potassium, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | 2.36 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23V

Location Code: WMWGORAP
Collected: 2/23/22 13:33
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03973

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/25/22 08:30 | 2/25/22 17:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | 0.0000827 | mg/L | 0.000068 | 0.000203 | J |
| * Barium, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | 0.0771 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | 0.136 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | 0.000118 | mg/L | 0.000068 | 0.000203 | J |
| * Potassium, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | 2.35 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/28/22 13:52 | 3/3/22 13:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 2/25/22 16:39 | 2/25/22 22:39 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/25/22 13:01 | 2/25/22 13:01 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 294 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/1/22 11:20 | 3/2/22 14:02 | | 1 | 752 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 293 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 1.41 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/4/22 14:33 | 3/4/22 14:33 | | 1 | 1.00 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23V

Location Code: WMWGORAP
Collected: 2/23/22 13:33
Customer ID:
Submittal Date: 2/23/22 16:56

Laboratory ID Number: BC03973

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/24/22 15:32 | 2/24/22 15:32 | | 1 | 3.21 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/25/22 10:37 | 2/25/22 10:37 | | 1 | 0.141 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:37 | 3/2/22 11:37 | | 16 | 331 | mg/L | 8.00 | 16 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 2/23/22 13:30 | 2/23/22 13:30 | | | 986.95 | uS/cm | | | FA |
| pH | 2/23/22 13:30 | 2/23/22 13:30 | | | 7.38 | SU | | | FA |
| Temperature | 2/23/22 13:30 | 2/23/22 13:30 | | | 16.71 | C | | | FA |
| Turbidity | 2/23/22 13:30 | 2/23/22 13:30 | | | 9.26 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 13:33

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-23V

Laboratory ID Number: BC03973

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC03973 | Aluminum, Dissolved | mg/L | -0.000122 | 0.010 | 0.100 | 0.107 | 0.104 | 0.0988 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03973 | Aluminum, Total | mg/L | 0.000393 | 0.010 | 0.100 | 0.491 | 0.514 | 0.0954 | 0.0850 to 0.115 | 196 | 70.0 to 130 | 4.58 | 20.0 |
| BC03973 | Antimony, Dissolved | mg/L | 0.000368 | 0.00100 | 0.100 | 0.0971 | 0.0934 | 0.0893 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 3.88 | 20.0 |
| BC03973 | Antimony, Total | mg/L | 0.000431 | 0.00100 | 0.100 | 0.0953 | 0.101 | 0.0874 | 0.0850 to 0.115 | 95.3 | 70.0 to 130 | 5.81 | 20.0 |
| BC03973 | Arsenic, Dissolved | mg/L | 0.0000084 | 0.000176 | 0.100 | 0.107 | 0.104 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC03973 | Arsenic, Total | mg/L | 0.0000028 | 0.000176 | 0.100 | 0.0997 | 0.0991 | 0.0952 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 0.604 | 20.0 |
| BC03973 | Barium, Dissolved | mg/L | 0.0000048 | 0.000200 | 0.100 | 0.181 | 0.175 | 0.0960 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.37 | 20.0 |
| BC03973 | Barium, Total | mg/L | -0.0000001 | 0.000200 | 0.100 | 0.173 | 0.174 | 0.0921 | 0.0850 to 0.115 | 91.8 | 70.0 to 130 | 0.576 | 20.0 |
| BC03973 | Beryllium, Dissolved | mg/L | 0.0000123 | 0.000880 | 0.100 | 0.0960 | 0.0992 | 0.0920 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 3.28 | 20.0 |
| BC03973 | Beryllium, Total | mg/L | 0.000271 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC04380 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 0.997 | 1.03 | 0.991 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC04384 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 1.05 | 1.05 | 0.993 | 0.850 to 1.15 | 99.2 | 70.0 to 130 | 0.00 | 20.0 |
| BC03973 | Cadmium, Dissolved | mg/L | 0.0000030 | 0.000147 | 0.100 | 0.0965 | 0.100 | 0.0986 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 3.56 | 20.0 |
| BC03973 | Cadmium, Total | mg/L | 0.00001 | 0.000147 | 0.100 | 0.0951 | 0.0944 | 0.0967 | 0.0850 to 0.115 | 95.1 | 70.0 to 130 | 0.739 | 20.0 |
| BC04380 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 45.5 | 46.0 | 4.95 | 4.25 to 5.75 | 90.0 | 70.0 to 130 | 1.09 | 20.0 |
| BC04384 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 5.90 | 5.94 | 4.80 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 0.676 | 20.0 |
| BC03973 | Chromium, Dissolved | mg/L | -0.0000065 | 0.000440 | 0.100 | 0.102 | 0.0985 | 0.0994 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.49 | 20.0 |
| BC03973 | Chromium, Total | mg/L | -0.0000397 | 0.000440 | 0.100 | 0.0976 | 0.0974 | 0.0952 | 0.0850 to 0.115 | 96.9 | 70.0 to 130 | 0.205 | 20.0 |
| BC03973 | Cobalt, Dissolved | mg/L | 0.0000031 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.104 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC03973 | Cobalt, Total | mg/L | 0.0000136 | 0.000147 | 0.100 | 0.0984 | 0.0977 | 0.0979 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 0.714 | 20.0 |
| BC04380 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 0.550 | 0.561 | 0.196 | 0.170 to 0.230 | 90.5 | 70.0 to 130 | 1.98 | 20.0 |
| BC04384 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.391 | 0.411 | 0.195 | 0.170 to 0.230 | 112 | 70.0 to 130 | 4.99 | 20.0 |
| BC03973 | Lead, Dissolved | mg/L | 0.0000104 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 13:33

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-23V

Laboratory ID Number: BC03973

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC03973 | Lead, Total | mg/L | 0.0000026 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.106 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC04380 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.198 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 0.436 | 20.0 |
| BC04384 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.206 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 0.436 | 20.0 |
| BC04380 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 21.0 | 21.2 | 5.16 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.948 | 20.0 |
| BC04384 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.38 | 5.40 | 5.17 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.371 | 20.0 |
| BC03973 | Manganese, Dissolved | mg/L | 0.0000165 | 0.0002 | 0.100 | 0.243 | 0.238 | 0.102 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.08 | 20.0 |
| BC03973 | Manganese, Total | mg/L | -0.000017 | 0.0002 | 0.100 | 0.241 | 0.240 | 0.0978 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.416 | 20.0 |
| BC03973 | Mercury, Total by CVAA | mg/L | -3.000E-05 | 0.000500 | 0.004 | 0.00388 | 0.00391 | 0.00385 | 0.00340 to 0.00460 | 97.0 | 70.0 to 130 | 0.770 | 20.0 |
| BC03973 | Molybdenum, Dissolved | mg/L | 0.0000139 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0995 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.00 | 20.0 |
| BC03973 | Molybdenum, Total | mg/L | 0.0000113 | 0.0002 | 0.100 | 0.0933 | 0.0957 | 0.0955 | 0.0850 to 0.115 | 93.2 | 70.0 to 130 | 2.54 | 20.0 |
| BC03973 | Potassium, Dissolved | mg/L | -0.0146 | 0.367 | 10.0 | 12.2 | 12.2 | 9.90 | 8.50 to 11.5 | 98.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC03973 | Potassium, Total | mg/L | -0.0344 | 0.367 | 10.0 | 12.2 | 12.2 | 9.66 | 8.50 to 11.5 | 98.4 | 70.0 to 130 | 0.00 | 20.0 |
| BC03973 | Selenium, Dissolved | mg/L | -0.0000156 | 0.00100 | 0.100 | 0.103 | 0.101 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC03973 | Selenium, Total | mg/L | 0.000106 | 0.00100 | 0.100 | 0.0977 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 2.13 | 20.0 |
| BC04380 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.5 | 12.7 | 0.998 | 0.850 to 1.15 | 70.0 | 70.0 to 130 | 1.59 | 20.0 |
| BC04384 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 5.98 | 6.04 | 1.00 | 0.850 to 1.15 | 132 | 70.0 to 130 | 0.998 | 20.0 |
| BC04380 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 45.0 | 45.3 | 4.98 | 4.25 to 5.75 | 84.0 | 70.0 to 130 | 0.664 | 20.0 |
| BC04384 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 130 | 129 | 5.18 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 0.772 | 20.0 |
| BC03973 | Thallium, Dissolved | mg/L | 0.0000119 | 0.000147 | 0.100 | 0.102 | 0.100 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC03973 | Thallium, Total | mg/L | 0.0000015 | 0.000147 | 0.100 | 0.101 | 0.0996 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.40 | 20.0 |
| BC04376 | Total Organic Carbon | mg/L | 0.270 | 1.00 | 10.0 | 10.7 | 10.4 | 9.67 | | 92.9 | 80.0 to 120 | 2.84 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/23/22 13:33

Customer ID:

Delivery Date: 2/23/22 16:56

Description: Gorgas Ash Pond - MW-23V

Laboratory ID Number: BC03973

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC04380 | Alkalinity, Total as CaCO3 | mg/L | | | | | 234 | 51.4 | 45.0 to 55.0 | | | 8.00 | 10.0 |
| BC03973 | Chloride | mg/L | 0.0138 | 1.00 | 10.0 | 13.5 | 3.33 | 10.2 | 9.00 to 11.0 | 103 | 80.0 to 120 | 3.67 | 20.0 |
| BC03973 | Fluoride | mg/L | -0.0169 | 0.125 | 2.50 | 2.75 | 0.140 | 2.59 | 2.25 to 2.75 | 104 | 80.0 to 120 | 0.712 | 20.0 |
| BC03973 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.04 | 0.200 | 2.00 | 1.92 | -0.044 | 1.97 | 1.80 to 2.20 | 96.0 | 90.0 to 110 | 0.00 | 15.0 |
| BC03973 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 758 | 49.0 | 40.0 to 60.0 | | | 0.795 | 10.0 |
| BC04384 | Sulfate | mg/L | -0.0624 | 2.0 | 20.0 | 23.2 | 5.86 | 18.4 | 18.0 to 22.0 | 86.6 | 80.0 to 120 | 0.341 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-37HR

Location Code: WMWGORAP
Collected: 2/28/22 12:20
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04376

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:06 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 10:06 | | 1.015 | 2.59 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:06 | | 1.015 | 0.0797 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:06 | | 1.015 | 0.0312 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:06 | | 1.015 | 0.783 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:06 | | 1 | 19.2 | mg/L | | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:06 | | 1.015 | 8.99 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 11:58 | | 10.15 | 109 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 10:59 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 10:59 | | 1.015 | 2.52 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 10:59 | | 1.015 | 0.0283 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 10:59 | | 1.015 | 0.0311 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 10:59 | | 1.015 | 0.756 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 10:59 | | 1 | 18.7 | mg/L | | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 10:59 | | 1.015 | 8.73 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 12:36 | | 10.15 | 109 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | 0.0485 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | 0.000938 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | 0.0131 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | 0.000371 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | 0.0160 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | 0.00315 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | 6.41 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-37HR

Location Code: WMWGORAP
Collected: 2/28/22 12:20
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04376

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | 0.00878 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | 0.000861 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | 0.0131 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | 0.0153 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | 0.00329 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | 6.39 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | 0.00164 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 3/2/22 10:16 | 3/3/22 11:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 19:55 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 08:50 | 3/9/22 08:50 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 224 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | 287 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 222 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 1.99 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/4/22 14:50 | 3/4/22 14:50 | | 1 | 1.41 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-37HR

Location Code: WMWGORAP

Collected: 2/28/22 12:20

Customer ID:

Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04376

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 13:34 | 3/2/22 13:34 | | 2 | 28.1 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 11:56 | 3/3/22 11:56 | | 1 | 0.194 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:24 | 3/2/22 11:24 | | 1 | 22.6 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/28/22 12:17 | 2/28/22 12:17 | | | 497.92 | uS/cm | | | FA |
| pH | 2/28/22 12:17 | 2/28/22 12:17 | | | 7.88 | SU | | | FA |
| Temperature | 2/28/22 12:17 | 2/28/22 12:17 | | | 17.36 | C | | | FA |
| Turbidity | 2/28/22 12:17 | 2/28/22 12:17 | | | 2.79 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 12:20

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-37HR

Laboratory ID Number: BC04376

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC04386 | Aluminum, Dissolved | mg/L | 0.0000136 | 0.010 | 0.100 | 0.0950 | 0.0967 | 0.0982 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.77 | 20.0 |
| BC04385 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.104 | 0.103 | 0.0988 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 0.966 | 20.0 |
| BC04386 | Antimony, Dissolved | mg/L | 0.000661 | 0.00100 | 0.100 | 0.0897 | 0.0908 | 0.0875 | 0.0850 to 0.115 | 89.7 | 70.0 to 130 | 1.22 | 20.0 |
| BC04385 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0935 | 0.0963 | 0.0911 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 2.95 | 20.0 |
| BC04386 | Arsenic, Dissolved | mg/L | -0.0000123 | 0.000176 | 0.100 | 0.0970 | 0.0976 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.617 | 20.0 |
| BC04385 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.100 | 0.0989 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 1.11 | 20.0 |
| BC04386 | Barium, Dissolved | mg/L | 0.0000116 | 0.000200 | 0.100 | 0.154 | 0.159 | 0.0920 | 0.0850 to 0.115 | 87.8 | 70.0 to 130 | 3.19 | 20.0 |
| BC04385 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.198 | 0.199 | 0.0932 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.504 | 20.0 |
| BC04386 | Beryllium, Dissolved | mg/L | 0.0000168 | 0.000880 | 0.100 | 0.0970 | 0.0968 | 0.101 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.206 | 20.0 |
| BC04385 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.102 | 0.0995 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.48 | 20.0 |
| BC04380 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 0.997 | 1.03 | 0.991 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC04384 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 1.05 | 1.05 | 0.993 | 0.850 to 1.15 | 99.2 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0921 | 0.0938 | 0.0976 | 0.0850 to 0.115 | 92.1 | 70.0 to 130 | 1.83 | 20.0 |
| BC04385 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0977 | 0.0981 | 0.0979 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 0.409 | 20.0 |
| BC04380 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 45.5 | 46.0 | 4.95 | 4.25 to 5.75 | 90.0 | 70.0 to 130 | 1.09 | 20.0 |
| BC04384 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 5.90 | 5.94 | 4.80 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 0.676 | 20.0 |
| BC04386 | Chromium, Dissolved | mg/L | -0.0000164 | 0.000440 | 0.100 | 0.0925 | 0.0946 | 0.0978 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 2.24 | 20.0 |
| BC04385 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0977 | 0.0949 | 0.100 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 2.91 | 20.0 |
| BC04386 | Cobalt, Dissolved | mg/L | 0.0000016 | 0.000147 | 0.100 | 0.0947 | 0.0962 | 0.0998 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 1.57 | 20.0 |
| BC04385 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0985 | 0.0951 | 0.103 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 3.51 | 20.0 |
| BC04380 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 0.550 | 0.561 | 0.196 | 0.170 to 0.230 | 90.5 | 70.0 to 130 | 1.98 | 20.0 |
| BC04384 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.391 | 0.411 | 0.195 | 0.170 to 0.230 | 112 | 70.0 to 130 | 4.99 | 20.0 |
| BC04386 | Lead, Dissolved | mg/L | 0.0000116 | 0.000147 | 0.100 | 0.0980 | 0.0984 | 0.0961 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 12:20

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-37HR

Laboratory ID Number: BC04376

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC04385 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0955 | 0.0964 | 0.0994 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 0.938 | 20.0 |
| BC04380 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.198 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 0.436 | 20.0 |
| BC04384 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.206 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 0.436 | 20.0 |
| BC04380 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 21.0 | 21.2 | 5.16 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.948 | 20.0 |
| BC04384 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.38 | 5.40 | 5.17 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.371 | 20.0 |
| BC04386 | Manganese, Dissolved | mg/L | 0.0000034 | 0.0002 | 0.100 | 0.216 | 0.216 | 0.0988 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04385 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.169 | 0.164 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 3.00 | 20.0 |
| BC04385 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00404 | 0.00402 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.496 | 20.0 |
| BC04386 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.0997 | 0.0985 | 0.0975 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.21 | 20.0 |
| BC04385 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0975 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Potassium, Dissolved | mg/L | 0.0280 | 0.367 | 10.0 | 15.8 | 16.1 | 10.0 | 8.50 to 11.5 | 95.2 | 70.0 to 130 | 1.88 | 20.0 |
| BC04385 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 11.0 | 10.8 | 9.96 | 8.50 to 11.5 | 97.6 | 70.0 to 130 | 1.83 | 20.0 |
| BC04386 | Selenium, Dissolved | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC04385 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0990 | 0.0993 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.303 | 20.0 |
| BC04380 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.5 | 12.7 | 0.998 | 0.850 to 1.15 | 70.0 | 70.0 to 130 | 1.59 | 20.0 |
| BC04384 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 5.98 | 6.04 | 1.00 | 0.850 to 1.15 | 132 | 70.0 to 130 | 0.998 | 20.0 |
| BC04380 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 45.0 | 45.3 | 4.98 | 4.25 to 5.75 | 84.0 | 70.0 to 130 | 0.664 | 20.0 |
| BC04384 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 130 | 129 | 5.18 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 0.772 | 20.0 |
| BC04386 | Thallium, Dissolved | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.0994 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.52 | 20.0 |
| BC04385 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0963 | 0.0957 | 0.0992 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.625 | 20.0 |
| BC04376 | Total Organic Carbon | mg/L | 0.270 | 1.00 | 10.0 | 10.7 | 10.4 | 9.67 | | 92.9 | 80.0 to 120 | 2.84 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 12:20

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-37HR

Laboratory ID Number: BC04376

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC04380 | Alkalinity, Total as CaCO3 | mg/L | | | | | 234 | 51.4 | 45.0 to 55.0 | | | 8.00 | 10.0 |
| BC04385 | Chloride | mg/L | -0.0588 | 1.00 | 10.0 | 15.9 | 5.15 | 10.3 | 9.00 to 11.0 | 108 | 80.0 to 120 | 1.37 | 20.0 |
| BC04385 | Fluoride | mg/L | 0.0273 | 0.125 | 2.50 | 2.70 | 0.131 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 8.76 | 20.0 |
| BC04385 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 2.16 | 0.004 | 1.87 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC04385 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 242 | 50.0 | 40.0 to 60.0 | | | 0.823 | 10.0 |
| BC04384 | Sulfate | mg/L | -0.0624 | 2.0 | 20.0 | 23.2 | 5.86 | 18.4 | 18.0 to 22.0 | 86.6 | 80.0 to 120 | 0.341 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-47

Location Code: WMWGORAP
Collected: 2/28/22 14:12
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04377

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:08 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 10:08 | | 1.015 | 28.7 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:08 | | 1.015 | 0.542 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:08 | | 1.015 | 0.0400 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:08 | | 1.015 | 10.3 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:08 | | 1 | 24.0 | mg/L | | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:08 | | 1.015 | 11.2 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 10:08 | | 1.015 | 26.6 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 11:08 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 11:08 | | 1.015 | 28.7 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 11:08 | | 1.015 | 0.413 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 11:08 | | 1.015 | 0.0363 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 11:08 | | 1.015 | 9.48 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 11:08 | | 1 | 23.1 | mg/L | | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 11:08 | | 1.015 | 10.8 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 11:08 | | 1.015 | 24.4 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | 0.0144 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | 0.000385 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | 0.772 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | 0.000331 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | 0.000118 | mg/L | 0.000068 | 0.000203 | J | |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | 0.0445 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | 0.00165 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | 3.41 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-47

Location Code: WMWGORAP
Collected: 2/28/22 14:12
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04377

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 12:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | 0.00406 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | 0.000397 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | 0.762 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | 0.000120 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | 0.0435 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | 0.00159 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | 3.46 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 3/2/22 10:16 | 3/3/22 11:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 19:59 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 08:52 | 3/9/22 08:52 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 167 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | 180 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 166 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 0.96 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/9/22 12:17 | 3/9/22 12:17 | | 1 | 1.37 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-47

Location Code: WMWGORAP

Collected: 2/28/22 14:12

Customer ID:

Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04377

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 13:16 | 3/2/22 13:16 | | 1 | 11.7 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 11:57 | 3/3/22 11:57 | | 1 | 0.121 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:25 | 3/2/22 11:25 | | 1 | 14.4 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/28/22 14:09 | 2/28/22 14:09 | | | 321.01 | uS/cm | | | FA |
| pH | 2/28/22 14:09 | 2/28/22 14:09 | | | 7.15 | SU | | | FA |
| Temperature | 2/28/22 14:09 | 2/28/22 14:09 | | | 16.89 | C | | | FA |
| Turbidity | 2/28/22 14:09 | 2/28/22 14:09 | | | 2.37 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 14:12

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-47

Laboratory ID Number: BC04377

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC04386 | Aluminum, Dissolved | mg/L | 0.0000136 | 0.010 | 0.100 | 0.0950 | 0.0967 | 0.0982 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.77 | 20.0 |
| BC04385 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.104 | 0.103 | 0.0988 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 0.966 | 20.0 |
| BC04386 | Antimony, Dissolved | mg/L | 0.000661 | 0.00100 | 0.100 | 0.0897 | 0.0908 | 0.0875 | 0.0850 to 0.115 | 89.7 | 70.0 to 130 | 1.22 | 20.0 |
| BC04385 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0935 | 0.0963 | 0.0911 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 2.95 | 20.0 |
| BC04386 | Arsenic, Dissolved | mg/L | -0.0000123 | 0.000176 | 0.100 | 0.0970 | 0.0976 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.617 | 20.0 |
| BC04385 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.100 | 0.0989 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 1.11 | 20.0 |
| BC04386 | Barium, Dissolved | mg/L | 0.0000116 | 0.000200 | 0.100 | 0.154 | 0.159 | 0.0920 | 0.0850 to 0.115 | 87.8 | 70.0 to 130 | 3.19 | 20.0 |
| BC04385 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.198 | 0.199 | 0.0932 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.504 | 20.0 |
| BC04386 | Beryllium, Dissolved | mg/L | 0.0000168 | 0.000880 | 0.100 | 0.0970 | 0.0968 | 0.101 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.206 | 20.0 |
| BC04385 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.102 | 0.0995 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.48 | 20.0 |
| BC04380 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 0.997 | 1.03 | 0.991 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC04384 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 1.05 | 1.05 | 0.993 | 0.850 to 1.15 | 99.2 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0921 | 0.0938 | 0.0976 | 0.0850 to 0.115 | 92.1 | 70.0 to 130 | 1.83 | 20.0 |
| BC04385 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0977 | 0.0981 | 0.0979 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 0.409 | 20.0 |
| BC04380 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 45.5 | 46.0 | 4.95 | 4.25 to 5.75 | 90.0 | 70.0 to 130 | 1.09 | 20.0 |
| BC04384 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 5.90 | 5.94 | 4.80 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 0.676 | 20.0 |
| BC04386 | Chromium, Dissolved | mg/L | -0.0000164 | 0.000440 | 0.100 | 0.0925 | 0.0946 | 0.0978 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 2.24 | 20.0 |
| BC04385 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0977 | 0.0949 | 0.100 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 2.91 | 20.0 |
| BC04386 | Cobalt, Dissolved | mg/L | 0.0000016 | 0.000147 | 0.100 | 0.0947 | 0.0962 | 0.0998 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 1.57 | 20.0 |
| BC04385 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0985 | 0.0951 | 0.103 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 3.51 | 20.0 |
| BC04380 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 0.550 | 0.561 | 0.196 | 0.170 to 0.230 | 90.5 | 70.0 to 130 | 1.98 | 20.0 |
| BC04384 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.391 | 0.411 | 0.195 | 0.170 to 0.230 | 112 | 70.0 to 130 | 4.99 | 20.0 |
| BC04386 | Lead, Dissolved | mg/L | 0.0000116 | 0.000147 | 0.100 | 0.0980 | 0.0984 | 0.0961 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 14:12

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-47

Laboratory ID Number: BC04377

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC04385 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0955 | 0.0964 | 0.0994 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 0.938 | 20.0 |
| BC04380 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.198 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 0.436 | 20.0 |
| BC04384 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.206 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 0.436 | 20.0 |
| BC04380 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 21.0 | 21.2 | 5.16 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.948 | 20.0 |
| BC04384 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.38 | 5.40 | 5.17 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.371 | 20.0 |
| BC04386 | Manganese, Dissolved | mg/L | 0.0000034 | 0.0002 | 0.100 | 0.216 | 0.216 | 0.0988 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04385 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.169 | 0.164 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 3.00 | 20.0 |
| BC04385 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00404 | 0.00402 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.496 | 20.0 |
| BC04386 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.0997 | 0.0985 | 0.0975 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.21 | 20.0 |
| BC04385 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0975 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Potassium, Dissolved | mg/L | 0.0280 | 0.367 | 10.0 | 15.8 | 16.1 | 10.0 | 8.50 to 11.5 | 95.2 | 70.0 to 130 | 1.88 | 20.0 |
| BC04385 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 11.0 | 10.8 | 9.96 | 8.50 to 11.5 | 97.6 | 70.0 to 130 | 1.83 | 20.0 |
| BC04386 | Selenium, Dissolved | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC04385 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0990 | 0.0993 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.303 | 20.0 |
| BC04380 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.5 | 12.7 | 0.998 | 0.850 to 1.15 | 70.0 | 70.0 to 130 | 1.59 | 20.0 |
| BC04384 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 5.98 | 6.04 | 1.00 | 0.850 to 1.15 | 132 | 70.0 to 130 | 0.998 | 20.0 |
| BC04380 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 45.0 | 45.3 | 4.98 | 4.25 to 5.75 | 84.0 | 70.0 to 130 | 0.664 | 20.0 |
| BC04384 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 130 | 129 | 5.18 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 0.772 | 20.0 |
| BC04386 | Thallium, Dissolved | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.0994 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.52 | 20.0 |
| BC04385 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0963 | 0.0957 | 0.0992 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.625 | 20.0 |
| BC04386 | Total Organic Carbon | mg/L | 0.220 | 1.00 | 10.0 | 14.5 | 14.6 | 10.1 | | 102 | 80.0 to 120 | 0.687 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 14:12

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-47

Laboratory ID Number: BC04377

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC04380 | Alkalinity, Total as CaCO3 | mg/L | | | | | 234 | 51.4 | 45.0 to 55.0 | | | 8.00 | 10.0 |
| BC04385 | Chloride | mg/L | -0.0588 | 1.00 | 10.0 | 15.9 | 5.15 | 10.3 | 9.00 to 11.0 | 108 | 80.0 to 120 | 1.37 | 20.0 |
| BC04385 | Fluoride | mg/L | 0.0273 | 0.125 | 2.50 | 2.70 | 0.131 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 8.76 | 20.0 |
| BC04385 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 2.16 | 0.004 | 1.87 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC04385 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 242 | 50.0 | 40.0 to 60.0 | | | 0.823 | 10.0 |
| BC04384 | Sulfate | mg/L | -0.0624 | 2.0 | 20.0 | 23.2 | 5.86 | 18.4 | 18.0 to 22.0 | 86.6 | 80.0 to 120 | 0.341 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-14R

Location Code: WMWGORAP
Collected: 2/28/22 15:33
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04378

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:10 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 10:10 | | 1.015 | 33.7 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:10 | | 1.015 | 0.649 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:10 | | 1.015 | 0.0228 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:10 | | 1.015 | 13.4 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:10 | | 1 | 26.5 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:10 | | 1.015 | 12.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 12:04 | | 10.15 | 54.6 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 11:10 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 11:10 | | 1.015 | 34.2 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 11:10 | | 1.015 | 0.504 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 11:10 | | 1.015 | 0.0223 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 11:10 | | 1.015 | 13.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 11:10 | | 1 | 26.3 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 11:10 | | 1.015 | 12.3 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 12:38 | | 10.15 | 53.8 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | 0.0987 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | 0.00231 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | 0.174 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | 0.000616 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | 0.000147 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | 0.000446 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | 0.0697 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | 0.000965 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | 2.85 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-14R

Location Code: WMWGORAP
Collected: 2/28/22 15:33
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04378

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | 0.00186 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | 0.186 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | 0.0641 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | 0.000788 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | 2.83 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | 0.00225 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 3/2/22 10:16 | 3/3/22 11:40 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 20:03 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 08:54 | 3/9/22 08:54 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 200 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | 305 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 200 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 0.33 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/9/22 12:32 | 3/9/22 12:32 | | 1 | 3.28 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-14R

Location Code: WMWGORAP

Collected: 2/28/22 15:33

Customer ID:

Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04378

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 13:36 | 3/2/22 13:36 | | 2 | 38.1 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 11:58 | 3/3/22 11:58 | | 1 | 0.215 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:26 | 3/2/22 11:26 | | 1 | 33.3 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/28/22 15:30 | 2/28/22 15:30 | | | 492.21 | uS/cm | | | FA |
| pH | 2/28/22 15:30 | 2/28/22 15:30 | | | 7.04 | SU | | | FA |
| Temperature | 2/28/22 15:30 | 2/28/22 15:30 | | | 16.41 | C | | | FA |
| Turbidity | 2/28/22 15:30 | 2/28/22 15:30 | | | 3.89 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 15:33

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-14R

Laboratory ID Number: BC04378

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC04386 | Aluminum, Dissolved | mg/L | 0.0000136 | 0.010 | 0.100 | 0.0950 | 0.0967 | 0.0982 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.77 | 20.0 |
| BC04385 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.104 | 0.103 | 0.0988 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 0.966 | 20.0 |
| BC04386 | Antimony, Dissolved | mg/L | 0.000661 | 0.00100 | 0.100 | 0.0897 | 0.0908 | 0.0875 | 0.0850 to 0.115 | 89.7 | 70.0 to 130 | 1.22 | 20.0 |
| BC04385 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0935 | 0.0963 | 0.0911 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 2.95 | 20.0 |
| BC04386 | Arsenic, Dissolved | mg/L | -0.0000123 | 0.000176 | 0.100 | 0.0970 | 0.0976 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.617 | 20.0 |
| BC04385 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.100 | 0.0989 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 1.11 | 20.0 |
| BC04386 | Barium, Dissolved | mg/L | 0.0000116 | 0.000200 | 0.100 | 0.154 | 0.159 | 0.0920 | 0.0850 to 0.115 | 87.8 | 70.0 to 130 | 3.19 | 20.0 |
| BC04385 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.198 | 0.199 | 0.0932 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.504 | 20.0 |
| BC04386 | Beryllium, Dissolved | mg/L | 0.0000168 | 0.000880 | 0.100 | 0.0970 | 0.0968 | 0.101 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.206 | 20.0 |
| BC04385 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.102 | 0.0995 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.48 | 20.0 |
| BC04380 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 0.997 | 1.03 | 0.991 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC04384 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 1.05 | 1.05 | 0.993 | 0.850 to 1.15 | 99.2 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0921 | 0.0938 | 0.0976 | 0.0850 to 0.115 | 92.1 | 70.0 to 130 | 1.83 | 20.0 |
| BC04385 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0977 | 0.0981 | 0.0979 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 0.409 | 20.0 |
| BC04380 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 45.5 | 46.0 | 4.95 | 4.25 to 5.75 | 90.0 | 70.0 to 130 | 1.09 | 20.0 |
| BC04384 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 5.90 | 5.94 | 4.80 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 0.676 | 20.0 |
| BC04386 | Chromium, Dissolved | mg/L | -0.0000164 | 0.000440 | 0.100 | 0.0925 | 0.0946 | 0.0978 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 2.24 | 20.0 |
| BC04385 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0977 | 0.0949 | 0.100 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 2.91 | 20.0 |
| BC04386 | Cobalt, Dissolved | mg/L | 0.0000016 | 0.000147 | 0.100 | 0.0947 | 0.0962 | 0.0998 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 1.57 | 20.0 |
| BC04385 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0985 | 0.0951 | 0.103 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 3.51 | 20.0 |
| BC04380 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 0.550 | 0.561 | 0.196 | 0.170 to 0.230 | 90.5 | 70.0 to 130 | 1.98 | 20.0 |
| BC04384 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.391 | 0.411 | 0.195 | 0.170 to 0.230 | 112 | 70.0 to 130 | 4.99 | 20.0 |
| BC04386 | Lead, Dissolved | mg/L | 0.0000116 | 0.000147 | 0.100 | 0.0980 | 0.0984 | 0.0961 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 15:33

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-14R

Laboratory ID Number: BC04378

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC04385 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0955 | 0.0964 | 0.0994 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 0.938 | 20.0 |
| BC04380 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.198 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 0.436 | 20.0 |
| BC04384 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.206 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 0.436 | 20.0 |
| BC04380 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 21.0 | 21.2 | 5.16 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.948 | 20.0 |
| BC04384 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.38 | 5.40 | 5.17 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.371 | 20.0 |
| BC04386 | Manganese, Dissolved | mg/L | 0.0000034 | 0.0002 | 0.100 | 0.216 | 0.216 | 0.0988 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04385 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.169 | 0.164 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 3.00 | 20.0 |
| BC04385 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00404 | 0.00402 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.496 | 20.0 |
| BC04386 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.0997 | 0.0985 | 0.0975 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.21 | 20.0 |
| BC04385 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0975 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Potassium, Dissolved | mg/L | 0.0280 | 0.367 | 10.0 | 15.8 | 16.1 | 10.0 | 8.50 to 11.5 | 95.2 | 70.0 to 130 | 1.88 | 20.0 |
| BC04385 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 11.0 | 10.8 | 9.96 | 8.50 to 11.5 | 97.6 | 70.0 to 130 | 1.83 | 20.0 |
| BC04386 | Selenium, Dissolved | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC04385 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0990 | 0.0993 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.303 | 20.0 |
| BC04380 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.5 | 12.7 | 0.998 | 0.850 to 1.15 | 70.0 | 70.0 to 130 | 1.59 | 20.0 |
| BC04384 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 5.98 | 6.04 | 1.00 | 0.850 to 1.15 | 132 | 70.0 to 130 | 0.998 | 20.0 |
| BC04380 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 45.0 | 45.3 | 4.98 | 4.25 to 5.75 | 84.0 | 70.0 to 130 | 0.664 | 20.0 |
| BC04384 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 130 | 129 | 5.18 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 0.772 | 20.0 |
| BC04386 | Thallium, Dissolved | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.0994 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.52 | 20.0 |
| BC04385 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0963 | 0.0957 | 0.0992 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.625 | 20.0 |
| BC04386 | Total Organic Carbon | mg/L | 0.220 | 1.00 | 10.0 | 14.5 | 14.6 | 10.1 | | 102 | 80.0 to 120 | 0.687 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 15:33

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-14R

Laboratory ID Number: BC04378

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|-------|---------------|
| BC04380 | Alkalinity, Total as CaCO3 | mg/L | | | | | 234 | 51.4 | 45.0 to 55.0 | | | 8.00 | 10.0 |
| BC04385 | Chloride | mg/L | -0.0588 | 1.00 | 10.0 | 15.9 | 5.15 | 10.3 | 9.00 to 11.0 | 108 | 80.0 to 120 | 1.37 | 20.0 |
| BC04385 | Fluoride | mg/L | 0.0273 | 0.125 | 2.50 | 2.70 | 0.131 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 8.76 | 20.0 |
| BC04385 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 2.16 | 0.004 | 1.87 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC04385 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 242 | 50.0 | 40.0 to 60.0 | | | 0.823 | 10.0 |
| BC04384 | Sulfate | mg/L | -0.0624 | 2.0 | 20.0 | 23.2 | 5.86 | 18.4 | 18.0 to 22.0 | 86.6 | 80.0 to 120 | 0.341 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-13R

Location Code: WMWGORAP
Collected: 3/1/22 08:34
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04379

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:12 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 10:12 | | 1.015 | 31.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:12 | | 1.015 | 1.11 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:12 | | 1.015 | 0.0272 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:12 | | 1.015 | 13.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:12 | | 1 | 28.0 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:12 | | 1.015 | 13.1 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 10:12 | | 1.015 | 21.6 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 11:12 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 11:12 | | 1.015 | 32.0 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 11:12 | | 1.015 | 0.727 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 11:12 | | 1.015 | 0.0264 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 11:12 | | 1.015 | 13.1 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 11:12 | | 1 | 27.6 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 11:12 | | 1.015 | 12.9 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 11:12 | | 1.015 | 20.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | 0.0337 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | 0.0110 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | 0.0617 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | 0.000229 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | 0.000128 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | 0.0547 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | 0.000611 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | 1.87 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-13R

Location Code: WMWGORAP
Collected: 3/1/22 08:34
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04379

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 12:46 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | 0.00828 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | 0.0613 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | 0.0539 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | 0.000526 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | 1.88 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 3/2/22 10:16 | 3/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 20:07 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 08:56 | 3/9/22 08:56 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 130 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | 201 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 129 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 0.51 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/9/22 12:53 | 3/9/22 12:53 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-13R

Location Code: WMWGORAP

Collected: 3/1/22 08:34

Customer ID:

Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04379

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 13:19 | 3/2/22 13:19 | | 1 | 19.2 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 12:00 | 3/3/22 12:00 | | 1 | 0.122 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:27 | 3/2/22 11:27 | | 1 | 38.0 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 3/1/22 08:31 | 3/1/22 08:31 | | | 341.37 | uS/cm | | | FA |
| pH | 3/1/22 08:31 | 3/1/22 08:31 | | | 6.47 | SU | | | FA |
| Temperature | 3/1/22 08:31 | 3/1/22 08:31 | | | 15.21 | C | | | FA |
| Turbidity | 3/1/22 08:31 | 3/1/22 08:31 | | | 4.34 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 3/1/22 08:34
Customer ID:
Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-13R

Laboratory ID Number: BC04379

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC04386 | Aluminum, Dissolved | mg/L | 0.0000136 | 0.010 | 0.100 | 0.0950 | 0.0967 | 0.0982 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.77 | 20.0 |
| BC04385 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.104 | 0.103 | 0.0988 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 0.966 | 20.0 |
| BC04386 | Antimony, Dissolved | mg/L | 0.000661 | 0.00100 | 0.100 | 0.0897 | 0.0908 | 0.0875 | 0.0850 to 0.115 | 89.7 | 70.0 to 130 | 1.22 | 20.0 |
| BC04385 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0935 | 0.0963 | 0.0911 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 2.95 | 20.0 |
| BC04386 | Arsenic, Dissolved | mg/L | -0.0000123 | 0.000176 | 0.100 | 0.0970 | 0.0976 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.617 | 20.0 |
| BC04385 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.100 | 0.0989 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 1.11 | 20.0 |
| BC04386 | Barium, Dissolved | mg/L | 0.0000116 | 0.000200 | 0.100 | 0.154 | 0.159 | 0.0920 | 0.0850 to 0.115 | 87.8 | 70.0 to 130 | 3.19 | 20.0 |
| BC04385 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.198 | 0.199 | 0.0932 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.504 | 20.0 |
| BC04386 | Beryllium, Dissolved | mg/L | 0.0000168 | 0.000880 | 0.100 | 0.0970 | 0.0968 | 0.101 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.206 | 20.0 |
| BC04385 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.102 | 0.0995 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.48 | 20.0 |
| BC04380 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 0.997 | 1.03 | 0.991 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC04384 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 1.05 | 1.05 | 0.993 | 0.850 to 1.15 | 99.2 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0921 | 0.0938 | 0.0976 | 0.0850 to 0.115 | 92.1 | 70.0 to 130 | 1.83 | 20.0 |
| BC04385 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0977 | 0.0981 | 0.0979 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 0.409 | 20.0 |
| BC04380 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 45.5 | 46.0 | 4.95 | 4.25 to 5.75 | 90.0 | 70.0 to 130 | 1.09 | 20.0 |
| BC04384 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 5.90 | 5.94 | 4.80 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 0.676 | 20.0 |
| BC04386 | Chromium, Dissolved | mg/L | -0.0000164 | 0.000440 | 0.100 | 0.0925 | 0.0946 | 0.0978 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 2.24 | 20.0 |
| BC04385 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0977 | 0.0949 | 0.100 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 2.91 | 20.0 |
| BC04386 | Cobalt, Dissolved | mg/L | 0.0000016 | 0.000147 | 0.100 | 0.0947 | 0.0962 | 0.0998 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 1.57 | 20.0 |
| BC04385 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0985 | 0.0951 | 0.103 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 3.51 | 20.0 |
| BC04380 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 0.550 | 0.561 | 0.196 | 0.170 to 0.230 | 90.5 | 70.0 to 130 | 1.98 | 20.0 |
| BC04384 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.391 | 0.411 | 0.195 | 0.170 to 0.230 | 112 | 70.0 to 130 | 4.99 | 20.0 |
| BC04386 | Lead, Dissolved | mg/L | 0.0000116 | 0.000147 | 0.100 | 0.0980 | 0.0984 | 0.0961 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 08:34

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-13R

Laboratory ID Number: BC04379

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC04385 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0955 | 0.0964 | 0.0994 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 0.938 | 20.0 |
| BC04380 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.198 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 0.436 | 20.0 |
| BC04384 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.206 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 0.436 | 20.0 |
| BC04380 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 21.0 | 21.2 | 5.16 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.948 | 20.0 |
| BC04384 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.38 | 5.40 | 5.17 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.371 | 20.0 |
| BC04386 | Manganese, Dissolved | mg/L | 0.0000034 | 0.0002 | 0.100 | 0.216 | 0.216 | 0.0988 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04385 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.169 | 0.164 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 3.00 | 20.0 |
| BC04385 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00404 | 0.00402 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.496 | 20.0 |
| BC04386 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.0997 | 0.0985 | 0.0975 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.21 | 20.0 |
| BC04385 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0975 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Potassium, Dissolved | mg/L | 0.0280 | 0.367 | 10.0 | 15.8 | 16.1 | 10.0 | 8.50 to 11.5 | 95.2 | 70.0 to 130 | 1.88 | 20.0 |
| BC04385 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 11.0 | 10.8 | 9.96 | 8.50 to 11.5 | 97.6 | 70.0 to 130 | 1.83 | 20.0 |
| BC04386 | Selenium, Dissolved | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC04385 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0990 | 0.0993 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.303 | 20.0 |
| BC04380 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.5 | 12.7 | 0.998 | 0.850 to 1.15 | 70.0 | 70.0 to 130 | 1.59 | 20.0 |
| BC04384 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 5.98 | 6.04 | 1.00 | 0.850 to 1.15 | 132 | 70.0 to 130 | 0.998 | 20.0 |
| BC04380 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 45.0 | 45.3 | 4.98 | 4.25 to 5.75 | 84.0 | 70.0 to 130 | 0.664 | 20.0 |
| BC04384 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 130 | 129 | 5.18 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 0.772 | 20.0 |
| BC04386 | Thallium, Dissolved | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.0994 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.52 | 20.0 |
| BC04385 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0963 | 0.0957 | 0.0992 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.625 | 20.0 |
| BC04386 | Total Organic Carbon | mg/L | 0.220 | 1.00 | 10.0 | 14.5 | 14.6 | 10.1 | | 102 | 80.0 to 120 | 0.687 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 08:34

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-13R

Laboratory ID Number: BC04379

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC04380 | Alkalinity, Total as CaCO3 | mg/L | | | | | 234 | 51.4 | 45.0 to 55.0 | | | 8.00 | 10.0 |
| BC04385 | Chloride | mg/L | -0.0588 | 1.00 | 10.0 | 15.9 | 5.15 | 10.3 | 9.00 to 11.0 | 108 | 80.0 to 120 | 1.37 | 20.0 |
| BC04385 | Fluoride | mg/L | 0.0273 | 0.125 | 2.50 | 2.70 | 0.131 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 8.76 | 20.0 |
| BC04385 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 2.16 | 0.004 | 1.87 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC04385 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 242 | 50.0 | 40.0 to 60.0 | | | 0.823 | 10.0 |
| BC04384 | Sulfate | mg/L | -0.0624 | 2.0 | 20.0 | 23.2 | 5.86 | 18.4 | 18.0 to 22.0 | 86.6 | 80.0 to 120 | 0.341 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-10R

Location Code: WMWGORAP
Collected: 3/1/22 12:07
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04380

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:14 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 10:14 | | 1.015 | 39.8 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:14 | | 1.015 | 0.732 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:14 | | 1.015 | 0.0349 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:14 | | 1.015 | 16.2 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:14 | | 1 | 25.5 | mg/L | | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:14 | | 1.015 | 11.9 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 12:06 | | 10.15 | 40.8 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 11:14 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 12:40 | | 10.15 | 41.0 | mg/L | 0.70035 | 4.06 | | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 11:14 | | 1.015 | 0.369 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 11:14 | | 1.015 | 0.0342 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 11:14 | | 1.015 | 16.1 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 11:14 | | 1 | 25.3 | mg/L | | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 11:14 | | 1.015 | 11.8 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 12:40 | | 10.15 | 40.8 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | 0.0216 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | 0.00209 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | 0.701 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | 0.000237 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | 0.000140 | mg/L | 0.000068 | 0.000203 | J | |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | 0.000134 | mg/L | 0.000068 | 0.000203 | J | |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | 0.0647 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | 0.00288 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | 10.4 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-10R

Location Code: WMWGORAP
Collected: 3/1/22 12:07
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04380

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 12:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | 0.000604 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | 0.608 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | 0.000156 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | 0.0634 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | 0.00280 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | 11.0 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 3/2/22 10:16 | 3/3/22 11:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 20:11 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 08:58 | 3/9/22 08:58 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 216 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | 250 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 216 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/7/22 13:30 | 3/7/22 15:20 | | 1 | 0.24 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/9/22 13:13 | 3/9/22 13:13 | | 1 | 1.07 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-10R

Location Code: WMWGORAP

Collected: 3/1/22 12:07

Customer ID:

Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04380

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 13:37 | 3/2/22 13:37 | | 2 | 37.5 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 12:01 | 3/3/22 12:01 | | 1 | 0.278 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:28 | 3/2/22 11:28 | | 1 | 21.6 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 3/1/22 12:04 | 3/1/22 12:04 | | | 503.13 | uS/cm | | | FA |
| pH | 3/1/22 12:04 | 3/1/22 12:04 | | | 6.87 | SU | | | FA |
| Temperature | 3/1/22 12:04 | 3/1/22 12:04 | | | 18.32 | C | | | FA |
| Turbidity | 3/1/22 12:04 | 3/1/22 12:04 | | | 4.41 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 12:07

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-10R

Laboratory ID Number: BC04380

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC04386 | Aluminum, Dissolved | mg/L | 0.0000136 | 0.010 | 0.100 | 0.0950 | 0.0967 | 0.0982 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.77 | 20.0 |
| BC04385 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.104 | 0.103 | 0.0988 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 0.966 | 20.0 |
| BC04386 | Antimony, Dissolved | mg/L | 0.000661 | 0.00100 | 0.100 | 0.0897 | 0.0908 | 0.0875 | 0.0850 to 0.115 | 89.7 | 70.0 to 130 | 1.22 | 20.0 |
| BC04385 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0935 | 0.0963 | 0.0911 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 2.95 | 20.0 |
| BC04386 | Arsenic, Dissolved | mg/L | -0.0000123 | 0.000176 | 0.100 | 0.0970 | 0.0976 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.617 | 20.0 |
| BC04385 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.100 | 0.0989 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 1.11 | 20.0 |
| BC04386 | Barium, Dissolved | mg/L | 0.0000116 | 0.000200 | 0.100 | 0.154 | 0.159 | 0.0920 | 0.0850 to 0.115 | 87.8 | 70.0 to 130 | 3.19 | 20.0 |
| BC04385 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.198 | 0.199 | 0.0932 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.504 | 20.0 |
| BC04386 | Beryllium, Dissolved | mg/L | 0.0000168 | 0.000880 | 0.100 | 0.0970 | 0.0968 | 0.101 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.206 | 20.0 |
| BC04385 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.102 | 0.0995 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.48 | 20.0 |
| BC04380 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 0.997 | 1.03 | 0.991 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC04384 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 1.05 | 1.05 | 0.993 | 0.850 to 1.15 | 99.2 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0921 | 0.0938 | 0.0976 | 0.0850 to 0.115 | 92.1 | 70.0 to 130 | 1.83 | 20.0 |
| BC04385 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0977 | 0.0981 | 0.0979 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 0.409 | 20.0 |
| BC04380 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 45.5 | 46.0 | 4.95 | 4.25 to 5.75 | 90.0 | 70.0 to 130 | 1.09 | 20.0 |
| BC04384 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 5.90 | 5.94 | 4.80 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 0.676 | 20.0 |
| BC04386 | Chromium, Dissolved | mg/L | -0.0000164 | 0.000440 | 0.100 | 0.0925 | 0.0946 | 0.0978 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 2.24 | 20.0 |
| BC04385 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0977 | 0.0949 | 0.100 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 2.91 | 20.0 |
| BC04386 | Cobalt, Dissolved | mg/L | 0.0000016 | 0.000147 | 0.100 | 0.0947 | 0.0962 | 0.0998 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 1.57 | 20.0 |
| BC04385 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0985 | 0.0951 | 0.103 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 3.51 | 20.0 |
| BC04380 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 0.550 | 0.561 | 0.196 | 0.170 to 0.230 | 90.5 | 70.0 to 130 | 1.98 | 20.0 |
| BC04384 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.391 | 0.411 | 0.195 | 0.170 to 0.230 | 112 | 70.0 to 130 | 4.99 | 20.0 |
| BC04386 | Lead, Dissolved | mg/L | 0.0000116 | 0.000147 | 0.100 | 0.0980 | 0.0984 | 0.0961 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 12:07

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-10R

Laboratory ID Number: BC04380

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC04385 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0955 | 0.0964 | 0.0994 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 0.938 | 20.0 |
| BC04380 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.198 | 0.170 to 0.230 | 97.9 | 70.0 to 130 | 0.436 | 20.0 |
| BC04384 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.206 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 0.436 | 20.0 |
| BC04380 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 21.0 | 21.2 | 5.16 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.948 | 20.0 |
| BC04384 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.38 | 5.40 | 5.17 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.371 | 20.0 |
| BC04386 | Manganese, Dissolved | mg/L | 0.0000034 | 0.0002 | 0.100 | 0.216 | 0.216 | 0.0988 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04385 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.169 | 0.164 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 3.00 | 20.0 |
| BC04385 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00404 | 0.00402 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.496 | 20.0 |
| BC04386 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.0997 | 0.0985 | 0.0975 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.21 | 20.0 |
| BC04385 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0975 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Potassium, Dissolved | mg/L | 0.0280 | 0.367 | 10.0 | 15.8 | 16.1 | 10.0 | 8.50 to 11.5 | 95.2 | 70.0 to 130 | 1.88 | 20.0 |
| BC04385 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 11.0 | 10.8 | 9.96 | 8.50 to 11.5 | 97.6 | 70.0 to 130 | 1.83 | 20.0 |
| BC04386 | Selenium, Dissolved | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC04385 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0990 | 0.0993 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.303 | 20.0 |
| BC04380 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.5 | 12.7 | 0.998 | 0.850 to 1.15 | 70.0 | 70.0 to 130 | 1.59 | 20.0 |
| BC04384 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 5.98 | 6.04 | 1.00 | 0.850 to 1.15 | 132 | 70.0 to 130 | 0.998 | 20.0 |
| BC04380 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 45.0 | 45.3 | 4.98 | 4.25 to 5.75 | 84.0 | 70.0 to 130 | 0.664 | 20.0 |
| BC04384 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 130 | 129 | 5.18 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 0.772 | 20.0 |
| BC04386 | Thallium, Dissolved | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.0994 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.52 | 20.0 |
| BC04385 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0963 | 0.0957 | 0.0992 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.625 | 20.0 |
| BC04386 | Total Organic Carbon | mg/L | 0.220 | 1.00 | 10.0 | 14.5 | 14.6 | 10.1 | | 102 | 80.0 to 120 | 0.687 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 12:07

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-10R

Laboratory ID Number: BC04380

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC04380 | Alkalinity, Total as CaCO3 | mg/L | | | | | 234 | 51.4 | 45.0 to 55.0 | | | 8.00 | 10.0 |
| BC04385 | Chloride | mg/L | -0.0588 | 1.00 | 10.0 | 15.9 | 5.15 | 10.3 | 9.00 to 11.0 | 108 | 80.0 to 120 | 1.37 | 20.0 |
| BC04385 | Fluoride | mg/L | 0.0273 | 0.125 | 2.50 | 2.70 | 0.131 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 8.76 | 20.0 |
| BC04385 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 2.16 | 0.004 | 1.87 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC04385 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 242 | 50.0 | 40.0 to 60.0 | | | 0.823 | 10.0 |
| BC04384 | Sulfate | mg/L | -0.0624 | 2.0 | 20.0 | 23.2 | 5.86 | 18.4 | 18.0 to 22.0 | 86.6 | 80.0 to 120 | 0.341 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12

Location Code: WMWGORAP
Collected: 2/28/22 14:40
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04381

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:16 | | 1.015 | 0.0305 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 10:16 | | 1.015 | 37.9 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:16 | | 1.015 | 0.313 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:16 | | 1.015 | 0.0523 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:16 | | 1.015 | 11.2 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:16 | | 1 | 20.0 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:16 | | 1.015 | 9.33 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 10:16 | | 1.015 | 22.3 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 11:25 | | 1.015 | 0.0580 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 12:52 | | 10.15 | 43.1 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 11:25 | | 1.015 | 0.419 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 11:25 | | 1.015 | 0.0351 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 11:25 | | 1.015 | 12.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 11:25 | | 1 | 20.5 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 11:25 | | 1.015 | 9.58 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 11:25 | | 1.015 | 18.8 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | 0.00415 | mg/L | 0.000508 | 0.001015 | |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | 0.00343 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | 0.173 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | 0.0328 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | 0.00903 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | 1.98 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12

Location Code: WMWGORAP
Collected: 2/28/22 14:40
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04381

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 12:53 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | 0.00229 | mg/L | 0.000508 | 0.001015 | |
| * Aluminum, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | 0.00660 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | 0.193 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | 0.0392 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | 0.0114 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | 1.54 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 3/2/22 10:16 | 3/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 20:15 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 09:00 | 3/9/22 09:00 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 188 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | 195 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 186 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 1.83 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/9/22 13:31 | 3/9/22 13:31 | | 1 | 1.23 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12

Location Code: WMWGORAP

Collected: 2/28/22 14:40

Customer ID:

Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04381

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 13:21 | 3/2/22 13:21 | | 1 | 3.34 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 12:02 | 3/3/22 12:02 | | 1 | 0.120 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:30 | 3/2/22 11:30 | | 1 | 17.9 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 2/28/22 14:37 | 2/28/22 14:37 | | | 342.75 | uS/cm | | | FA |
| pH | 2/28/22 14:37 | 2/28/22 14:37 | | | 8.12 | SU | | | FA |
| Temperature | 2/28/22 14:37 | 2/28/22 14:37 | | | 18.79 | C | | | FA |
| Turbidity | 2/28/22 14:37 | 2/28/22 14:37 | | | 1.45 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 14:40

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: BC04381

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC04386 | Aluminum, Dissolved | mg/L | 0.0000136 | 0.010 | 0.100 | 0.0950 | 0.0967 | 0.0982 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.77 | 20.0 |
| BC04385 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.104 | 0.103 | 0.0988 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 0.966 | 20.0 |
| BC04386 | Antimony, Dissolved | mg/L | 0.000661 | 0.00100 | 0.100 | 0.0897 | 0.0908 | 0.0875 | 0.0850 to 0.115 | 89.7 | 70.0 to 130 | 1.22 | 20.0 |
| BC04385 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0935 | 0.0963 | 0.0911 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 2.95 | 20.0 |
| BC04386 | Arsenic, Dissolved | mg/L | -0.0000123 | 0.000176 | 0.100 | 0.0970 | 0.0976 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.617 | 20.0 |
| BC04385 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.100 | 0.0989 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 1.11 | 20.0 |
| BC04386 | Barium, Dissolved | mg/L | 0.0000116 | 0.000200 | 0.100 | 0.154 | 0.159 | 0.0920 | 0.0850 to 0.115 | 87.8 | 70.0 to 130 | 3.19 | 20.0 |
| BC04385 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.198 | 0.199 | 0.0932 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.504 | 20.0 |
| BC04386 | Beryllium, Dissolved | mg/L | 0.0000168 | 0.000880 | 0.100 | 0.0970 | 0.0968 | 0.101 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.206 | 20.0 |
| BC04385 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.102 | 0.0995 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.48 | 20.0 |
| BC04386 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.991 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.92 | 20.0 |
| BC04384 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 1.05 | 1.05 | 0.993 | 0.850 to 1.15 | 99.2 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0921 | 0.0938 | 0.0976 | 0.0850 to 0.115 | 92.1 | 70.0 to 130 | 1.83 | 20.0 |
| BC04385 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0977 | 0.0981 | 0.0979 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 102 | 99.4 | 4.95 | 4.25 to 5.75 | 106 | 70.0 to 130 | 2.58 | 20.0 |
| BC04384 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 5.90 | 5.94 | 4.80 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 0.676 | 20.0 |
| BC04386 | Chromium, Dissolved | mg/L | -0.0000164 | 0.000440 | 0.100 | 0.0925 | 0.0946 | 0.0978 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 2.24 | 20.0 |
| BC04385 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0977 | 0.0949 | 0.100 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 2.91 | 20.0 |
| BC04386 | Cobalt, Dissolved | mg/L | 0.0000016 | 0.000147 | 0.100 | 0.0947 | 0.0962 | 0.0998 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 1.57 | 20.0 |
| BC04385 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0985 | 0.0951 | 0.103 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 3.51 | 20.0 |
| BC04386 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 1.21 | 1.21 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04384 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.391 | 0.411 | 0.195 | 0.170 to 0.230 | 112 | 70.0 to 130 | 4.99 | 20.0 |
| BC04386 | Lead, Dissolved | mg/L | 0.0000116 | 0.000147 | 0.100 | 0.0980 | 0.0984 | 0.0961 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 14:40

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: BC04381

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC04385 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0955 | 0.0964 | 0.0994 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 0.938 | 20.0 |
| BC04386 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.267 | 0.263 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 1.51 | 20.0 |
| BC04384 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.206 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 0.436 | 20.0 |
| BC04386 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 43.8 | 42.8 | 5.16 | 4.25 to 5.75 | 118 | 70.0 to 130 | 2.31 | 20.0 |
| BC04384 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.38 | 5.40 | 5.17 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.371 | 20.0 |
| BC04386 | Manganese, Dissolved | mg/L | 0.0000034 | 0.0002 | 0.100 | 0.216 | 0.216 | 0.0988 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04385 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.169 | 0.164 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 3.00 | 20.0 |
| BC04385 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00404 | 0.00402 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.496 | 20.0 |
| BC04386 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.0997 | 0.0985 | 0.0975 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.21 | 20.0 |
| BC04385 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0975 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Potassium, Dissolved | mg/L | 0.0280 | 0.367 | 10.0 | 15.8 | 16.1 | 10.0 | 8.50 to 11.5 | 95.2 | 70.0 to 130 | 1.88 | 20.0 |
| BC04385 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 11.0 | 10.8 | 9.96 | 8.50 to 11.5 | 97.6 | 70.0 to 130 | 1.83 | 20.0 |
| BC04386 | Selenium, Dissolved | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC04385 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0990 | 0.0993 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.303 | 20.0 |
| BC04386 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.7 | 12.8 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.784 | 20.0 |
| BC04384 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 5.98 | 6.04 | 1.00 | 0.850 to 1.15 | 132 | 70.0 to 130 | 0.998 | 20.0 |
| BC04386 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 101 | 98.7 | 4.98 | 4.25 to 5.75 | 130 | 70.0 to 130 | 2.30 | 20.0 |
| BC04384 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 130 | 129 | 5.18 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 0.772 | 20.0 |
| BC04386 | Thallium, Dissolved | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.0994 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.52 | 20.0 |
| BC04385 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0963 | 0.0957 | 0.0992 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.625 | 20.0 |
| BC04386 | Total Organic Carbon | mg/L | 0.220 | 1.00 | 10.0 | 14.5 | 14.6 | 10.1 | | 102 | 80.0 to 120 | 0.687 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/28/22 14:40

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: BC04381

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC04386 | Alkalinity, Total as CaCO3 | mg/L | | | | | 260 | 50.7 | 45.0 to 55.0 | | | 3.77 | 10.0 |
| BC04385 | Chloride | mg/L | -0.0588 | 1.00 | 10.0 | 15.9 | 5.15 | 10.3 | 9.00 to 11.0 | 108 | 80.0 to 120 | 1.37 | 20.0 |
| BC04385 | Fluoride | mg/L | 0.0273 | 0.125 | 2.50 | 2.70 | 0.131 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 8.76 | 20.0 |
| BC04385 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 2.16 | 0.004 | 1.87 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC04385 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 242 | 50.0 | 40.0 to 60.0 | | | 0.823 | 10.0 |
| BC04384 | Sulfate | mg/L | -0.0624 | 2.0 | 20.0 | 23.2 | 5.86 | 18.4 | 18.0 to 22.0 | 86.6 | 80.0 to 120 | 0.341 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-09R

Location Code: WMWGORAP
Collected: 3/1/22 12:04
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04382

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:17 | | 1.015 | 0.106 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 13:05 | | 10.15 | 54.0 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:17 | | 1.015 | 1.58 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:17 | | 1.015 | 0.0361 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:17 | | 1.015 | 19.7 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:17 | | 1 | 31.0 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:17 | | 1.015 | 14.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 13:05 | | 10.15 | 60.0 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 11:27 | | 1.015 | 0.106 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 12:54 | | 10.15 | 49.3 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 11:27 | | 1.015 | 1.53 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 11:27 | | 1.015 | 0.0353 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 11:27 | | 1.015 | 19.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 11:27 | | 1 | 30.8 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 11:27 | | 1.015 | 14.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 12:54 | | 10.15 | 49.2 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | 0.0137 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | 0.00529 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | 0.0425 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | 0.000269 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | 0.0000926 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | 0.191 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | 0.00313 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | 5.76 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-09R

Location Code: WMWGORAP
Collected: 3/1/22 12:04
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04382

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 12:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | 0.00550 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | 0.0430 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | 0.0000806 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | 0.186 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | 0.00301 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | 5.55 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 3/2/22 10:16 | 3/3/22 11:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 20:19 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 09:01 | 3/9/22 09:01 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 134 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | 398 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 134 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 0.09 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/9/22 13:46 | 3/9/22 13:46 | | 1 | 1.99 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-09R

Location Code: WMWGORAP

Collected: 3/1/22 12:04

Customer ID:

Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04382

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 13:38 | 3/2/22 13:38 | | 4 | 65.9 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 12:03 | 3/3/22 12:03 | | 1 | 0.218 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:38 | 3/2/22 11:38 | | 5 | 104 | mg/L | 2.50 | 5 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 3/1/22 12:00 | 3/1/22 12:00 | | | 717.38 | uS/cm | | | FA |
| pH | 3/1/22 12:00 | 3/1/22 12:00 | | | 6.40 | SU | | | FA |
| Temperature | 3/1/22 12:00 | 3/1/22 12:00 | | | 19.28 | C | | | FA |
| Turbidity | 3/1/22 12:00 | 3/1/22 12:00 | | | 1.76 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 12:04

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-09R

Laboratory ID Number: BC04382

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC04386 | Aluminum, Dissolved | mg/L | 0.0000136 | 0.010 | 0.100 | 0.0950 | 0.0967 | 0.0982 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.77 | 20.0 |
| BC04385 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.104 | 0.103 | 0.0988 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 0.966 | 20.0 |
| BC04386 | Antimony, Dissolved | mg/L | 0.000661 | 0.00100 | 0.100 | 0.0897 | 0.0908 | 0.0875 | 0.0850 to 0.115 | 89.7 | 70.0 to 130 | 1.22 | 20.0 |
| BC04385 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0935 | 0.0963 | 0.0911 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 2.95 | 20.0 |
| BC04386 | Arsenic, Dissolved | mg/L | -0.0000123 | 0.000176 | 0.100 | 0.0970 | 0.0976 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.617 | 20.0 |
| BC04385 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.100 | 0.0989 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 1.11 | 20.0 |
| BC04386 | Barium, Dissolved | mg/L | 0.0000116 | 0.000200 | 0.100 | 0.154 | 0.159 | 0.0920 | 0.0850 to 0.115 | 87.8 | 70.0 to 130 | 3.19 | 20.0 |
| BC04385 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.198 | 0.199 | 0.0932 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.504 | 20.0 |
| BC04386 | Beryllium, Dissolved | mg/L | 0.0000168 | 0.000880 | 0.100 | 0.0970 | 0.0968 | 0.101 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.206 | 20.0 |
| BC04385 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.102 | 0.0995 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.48 | 20.0 |
| BC04386 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.991 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.92 | 20.0 |
| BC04384 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 1.05 | 1.05 | 0.993 | 0.850 to 1.15 | 99.2 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0921 | 0.0938 | 0.0976 | 0.0850 to 0.115 | 92.1 | 70.0 to 130 | 1.83 | 20.0 |
| BC04385 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0977 | 0.0981 | 0.0979 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 102 | 99.4 | 4.95 | 4.25 to 5.75 | 106 | 70.0 to 130 | 2.58 | 20.0 |
| BC04384 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 5.90 | 5.94 | 4.80 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 0.676 | 20.0 |
| BC04386 | Chromium, Dissolved | mg/L | -0.0000164 | 0.000440 | 0.100 | 0.0925 | 0.0946 | 0.0978 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 2.24 | 20.0 |
| BC04385 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0977 | 0.0949 | 0.100 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 2.91 | 20.0 |
| BC04386 | Cobalt, Dissolved | mg/L | 0.0000016 | 0.000147 | 0.100 | 0.0947 | 0.0962 | 0.0998 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 1.57 | 20.0 |
| BC04385 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0985 | 0.0951 | 0.103 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 3.51 | 20.0 |
| BC04386 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 1.21 | 1.21 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04384 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.391 | 0.411 | 0.195 | 0.170 to 0.230 | 112 | 70.0 to 130 | 4.99 | 20.0 |
| BC04386 | Lead, Dissolved | mg/L | 0.0000116 | 0.000147 | 0.100 | 0.0980 | 0.0984 | 0.0961 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 12:04

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-09R

Laboratory ID Number: BC04382

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC04385 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0955 | 0.0964 | 0.0994 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 0.938 | 20.0 |
| BC04386 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.267 | 0.263 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 1.51 | 20.0 |
| BC04384 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.206 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 0.436 | 20.0 |
| BC04386 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 43.8 | 42.8 | 5.16 | 4.25 to 5.75 | 118 | 70.0 to 130 | 2.31 | 20.0 |
| BC04384 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.38 | 5.40 | 5.17 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.371 | 20.0 |
| BC04386 | Manganese, Dissolved | mg/L | 0.0000034 | 0.0002 | 0.100 | 0.216 | 0.216 | 0.0988 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04385 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.169 | 0.164 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 3.00 | 20.0 |
| BC04385 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00404 | 0.00402 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.496 | 20.0 |
| BC04386 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.0997 | 0.0985 | 0.0975 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.21 | 20.0 |
| BC04385 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0975 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Potassium, Dissolved | mg/L | 0.0280 | 0.367 | 10.0 | 15.8 | 16.1 | 10.0 | 8.50 to 11.5 | 95.2 | 70.0 to 130 | 1.88 | 20.0 |
| BC04385 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 11.0 | 10.8 | 9.96 | 8.50 to 11.5 | 97.6 | 70.0 to 130 | 1.83 | 20.0 |
| BC04386 | Selenium, Dissolved | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC04385 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0990 | 0.0993 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.303 | 20.0 |
| BC04386 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.7 | 12.8 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.784 | 20.0 |
| BC04384 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 5.98 | 6.04 | 1.00 | 0.850 to 1.15 | 132 | 70.0 to 130 | 0.998 | 20.0 |
| BC04386 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 101 | 98.7 | 4.98 | 4.25 to 5.75 | 130 | 70.0 to 130 | 2.30 | 20.0 |
| BC04384 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 130 | 129 | 5.18 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 0.772 | 20.0 |
| BC04386 | Thallium, Dissolved | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.0994 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.52 | 20.0 |
| BC04385 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0963 | 0.0957 | 0.0992 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.625 | 20.0 |
| BC04386 | Total Organic Carbon | mg/L | 0.220 | 1.00 | 10.0 | 14.5 | 14.6 | 10.1 | | 102 | 80.0 to 120 | 0.687 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 12:04

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-09R

Laboratory ID Number: BC04382

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC04386 | Alkalinity, Total as CaCO3 | mg/L | | | | | 260 | 50.7 | 45.0 to 55.0 | | | 3.77 | 10.0 |
| BC04385 | Chloride | mg/L | -0.0588 | 1.00 | 10.0 | 15.9 | 5.15 | 10.3 | 9.00 to 11.0 | 108 | 80.0 to 120 | 1.37 | 20.0 |
| BC04385 | Fluoride | mg/L | 0.0273 | 0.125 | 2.50 | 2.70 | 0.131 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 8.76 | 20.0 |
| BC04385 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 2.16 | 0.004 | 1.87 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC04385 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 242 | 50.0 | 40.0 to 60.0 | | | 0.823 | 10.0 |
| BC04384 | Sulfate | mg/L | -0.0624 | 2.0 | 20.0 | 23.2 | 5.86 | 18.4 | 18.0 to 22.0 | 86.6 | 80.0 to 120 | 0.341 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB
Collected: 3/1/22 12:30
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04383

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:19 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 10:19 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:19 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:19 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:19 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:19 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:19 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 10:19 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | 0.000212 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 13:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 20:22 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 09:03 | 3/9/22 09:03 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB

Collected: 3/1/22 12:30

Customer ID:

Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04383

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/9/22 14:02 | 3/9/22 14:02 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 13:28 | 3/2/22 13:28 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 12:04 | 3/3/22 12:04 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:31 | 3/2/22 11:31 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 3/1/22 12:30

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC04383

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|------------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC04385 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.104 | 0.103 | 0.0988 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 0.966 | 20.0 |
| BC04385 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0935 | 0.0963 | 0.0911 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 2.95 | 20.0 |
| BC04385 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.100 | 0.0989 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 1.11 | 20.0 |
| BC04385 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.198 | 0.199 | 0.0932 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.504 | 20.0 |
| BC04385 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.102 | 0.0995 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.48 | 20.0 |
| BC04384 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 1.05 | 1.05 | 0.993 | 0.850 to 1.15 | 99.2 | 70.0 to 130 | 0.00 | 20.0 |
| BC04385 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0977 | 0.0981 | 0.0979 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 0.409 | 20.0 |
| BC04384 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 5.90 | 5.94 | 4.80 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 0.676 | 20.0 |
| BC04385 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0977 | 0.0949 | 0.100 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 2.91 | 20.0 |
| BC04385 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0985 | 0.0951 | 0.103 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 3.51 | 20.0 |
| BC04384 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.391 | 0.411 | 0.195 | 0.170 to 0.230 | 112 | 70.0 to 130 | 4.99 | 20.0 |
| BC04385 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0955 | 0.0964 | 0.0994 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 0.938 | 20.0 |
| BC04384 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.206 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 0.436 | 20.0 |
| BC04384 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.38 | 5.40 | 5.17 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.371 | 20.0 |
| BC04385 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.169 | 0.164 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 3.00 | 20.0 |
| BC04385 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00404 | 0.00402 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.496 | 20.0 |
| BC04385 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0975 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.409 | 20.0 |
| BC04385 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 11.0 | 10.8 | 9.96 | 8.50 to 11.5 | 97.6 | 70.0 to 130 | 1.83 | 20.0 |
| BC04385 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0990 | 0.0993 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.303 | 20.0 |
| BC04384 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 5.98 | 6.04 | 1.00 | 0.850 to 1.15 | 132 | 70.0 to 130 | 0.998 | 20.0 |
| BC04384 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 130 | 129 | 5.18 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 0.772 | 20.0 |
| BC04385 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0963 | 0.0957 | 0.0992 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.625 | 20.0 |
| BC04386 | Total Organic Carbon | mg/L | 0.220 | 1.00 | 10.0 | 14.5 | 14.6 | 10.1 | | 102 | 80.0 to 120 | 0.687 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 3/1/22 12:30

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC04383

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | MSD | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|
|--------|----------|-------|----|-------------|-------|----|-----|----------|-------------------|-----|--------------|------|---------------|

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 3/1/22 12:30

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC04383

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|--------------|-------|---------------|
| BC04385 | Chloride | mg/L | -0.0588 | 1.00 | 10.0 | 15.9 | 5.15 | 10.3 | 9.00 to 11.0 | 108 | 80.0 to 120 | 1.37 | 20.0 |
| BC04385 | Fluoride | mg/L | 0.0273 | 0.125 | 2.50 | 2.70 | 0.131 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 8.76 | 20.0 |
| BC04385 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 2.16 | 0.004 | 1.87 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC04385 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 242 | 50.0 | 40.0 to 60.0 | | | 0.823 | 10.0 |
| BC04384 | Sulfate | mg/L | -0.0624 | 2.0 | 20.0 | 23.2 | 5.86 | 18.4 | 18.0 to 22.0 | 86.6 | 80.0 to 120 | 0.341 | 20.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-01R

Location Code: WMWGORAP
Collected: 3/1/22 08:54
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04384

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:21 | | 1.015 | 0.0582 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 10:21 | | 1.015 | 1.14 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:21 | | 1.015 | 0.166 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:21 | | 1.015 | 0.0309 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:21 | | 1.015 | 0.348 | mg/L | 0.021315 | 0.406 | J |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:21 | | 1 | 9.97 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:21 | | 1.015 | 4.66 | mg/L | 0.02030 | 0.25375 | RA |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 12:10 | | 10.15 | 128 | mg/L | 0.3045 | 4.06 | RA |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 11:29 | | 1.015 | 0.0574 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 11:29 | | 1.015 | 1.07 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 11:29 | | 1.015 | 0.0117 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 11:29 | | 1.015 | 0.0303 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 11:29 | | 1.015 | 0.304 | mg/L | 0.021315 | 0.406 | J |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 11:29 | | 1 | 9.37 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 11:29 | | 1.015 | 4.38 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 13:09 | | 10.15 | 125 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | 0.204 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | 0.000382 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | 0.0720 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | 0.000443 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | 0.0000877 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | 0.000221 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | 0.00478 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | 0.00143 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | 0.733 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-01R

Location Code: WMWGORAP
Collected: 3/1/22 08:54
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04384

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | 0.0195 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | 0.000336 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | 0.0616 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | 0.000214 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | 0.00335 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | 0.00139 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | 0.668 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 3/2/22 10:16 | 3/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 20:26 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 09:05 | 3/9/22 09:05 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 272 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | 288 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 256 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 15.2 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/9/22 14:23 | 3/9/22 14:23 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-01R

Location Code: WMWGORAP

Collected: 3/1/22 08:54

Customer ID:

Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04384

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 13:24 | 3/2/22 13:24 | | 1 | 5.25 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 12:06 | 3/3/22 12:06 | | 1 | 0.248 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:33 | 3/2/22 11:33 | | 1 | 5.88 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 3/1/22 08:49 | 3/1/22 08:49 | | | 469.21 | uS/cm | | | FA |
| pH | 3/1/22 08:49 | 3/1/22 08:49 | | | 8.86 | SU | | | FA |
| Temperature | 3/1/22 08:49 | 3/1/22 08:49 | | | 15.83 | C | | | FA |
| Turbidity | 3/1/22 08:49 | 3/1/22 08:49 | | | 6.37 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 08:54

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-01R

Laboratory ID Number: BC04384

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC04386 | Aluminum, Dissolved | mg/L | 0.0000136 | 0.010 | 0.100 | 0.0950 | 0.0967 | 0.0982 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.77 | 20.0 |
| BC04385 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.104 | 0.103 | 0.0988 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 0.966 | 20.0 |
| BC04386 | Antimony, Dissolved | mg/L | 0.000661 | 0.00100 | 0.100 | 0.0897 | 0.0908 | 0.0875 | 0.0850 to 0.115 | 89.7 | 70.0 to 130 | 1.22 | 20.0 |
| BC04385 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0935 | 0.0963 | 0.0911 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 2.95 | 20.0 |
| BC04386 | Arsenic, Dissolved | mg/L | -0.0000123 | 0.000176 | 0.100 | 0.0970 | 0.0976 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.617 | 20.0 |
| BC04385 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.100 | 0.0989 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 1.11 | 20.0 |
| BC04386 | Barium, Dissolved | mg/L | 0.0000116 | 0.000200 | 0.100 | 0.154 | 0.159 | 0.0920 | 0.0850 to 0.115 | 87.8 | 70.0 to 130 | 3.19 | 20.0 |
| BC04385 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.198 | 0.199 | 0.0932 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.504 | 20.0 |
| BC04386 | Beryllium, Dissolved | mg/L | 0.0000168 | 0.000880 | 0.100 | 0.0970 | 0.0968 | 0.101 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.206 | 20.0 |
| BC04385 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.102 | 0.0995 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.48 | 20.0 |
| BC04386 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.991 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.92 | 20.0 |
| BC04384 | Boron, Total | mg/L | -0.000129 | 0.0650 | 1.00 | 1.05 | 1.05 | 0.993 | 0.850 to 1.15 | 99.2 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0921 | 0.0938 | 0.0976 | 0.0850 to 0.115 | 92.1 | 70.0 to 130 | 1.83 | 20.0 |
| BC04385 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0977 | 0.0981 | 0.0979 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 102 | 99.4 | 4.95 | 4.25 to 5.75 | 106 | 70.0 to 130 | 2.58 | 20.0 |
| BC04384 | Calcium, Total | mg/L | -0.00402 | 0.152 | 5.00 | 5.90 | 5.94 | 4.80 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 0.676 | 20.0 |
| BC04386 | Chromium, Dissolved | mg/L | -0.0000164 | 0.000440 | 0.100 | 0.0925 | 0.0946 | 0.0978 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 2.24 | 20.0 |
| BC04385 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0977 | 0.0949 | 0.100 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 2.91 | 20.0 |
| BC04386 | Cobalt, Dissolved | mg/L | 0.0000016 | 0.000147 | 0.100 | 0.0947 | 0.0962 | 0.0998 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 1.57 | 20.0 |
| BC04385 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0985 | 0.0951 | 0.103 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 3.51 | 20.0 |
| BC04386 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 1.21 | 1.21 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04384 | Iron, Total | mg/L | -0.000211 | 0.0176 | 0.2 | 0.391 | 0.411 | 0.195 | 0.170 to 0.230 | 112 | 70.0 to 130 | 4.99 | 20.0 |
| BC04386 | Lead, Dissolved | mg/L | 0.0000116 | 0.000147 | 0.100 | 0.0980 | 0.0984 | 0.0961 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 3/1/22 08:54
Customer ID:
Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-01R

Laboratory ID Number: BC04384

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC04385 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0955 | 0.0964 | 0.0994 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 0.938 | 20.0 |
| BC04386 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.267 | 0.263 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 1.51 | 20.0 |
| BC04384 | Lithium, Total | mg/L | -0.000195 | 0.0154 | 0.200 | 0.230 | 0.229 | 0.206 | 0.170 to 0.230 | 99.6 | 70.0 to 130 | 0.436 | 20.0 |
| BC04386 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 43.8 | 42.8 | 5.16 | 4.25 to 5.75 | 118 | 70.0 to 130 | 2.31 | 20.0 |
| BC04384 | Magnesium, Total | mg/L | -0.00896 | 0.0462 | 5.00 | 5.38 | 5.40 | 5.17 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.371 | 20.0 |
| BC04386 | Manganese, Dissolved | mg/L | 0.0000034 | 0.0002 | 0.100 | 0.216 | 0.216 | 0.0988 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04385 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.169 | 0.164 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 3.00 | 20.0 |
| BC04385 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00404 | 0.00402 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.496 | 20.0 |
| BC04386 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.0997 | 0.0985 | 0.0975 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.21 | 20.0 |
| BC04385 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0975 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Potassium, Dissolved | mg/L | 0.0280 | 0.367 | 10.0 | 15.8 | 16.1 | 10.0 | 8.50 to 11.5 | 95.2 | 70.0 to 130 | 1.88 | 20.0 |
| BC04385 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 11.0 | 10.8 | 9.96 | 8.50 to 11.5 | 97.6 | 70.0 to 130 | 1.83 | 20.0 |
| BC04386 | Selenium, Dissolved | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC04385 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0990 | 0.0993 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.303 | 20.0 |
| BC04386 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.7 | 12.8 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.784 | 20.0 |
| BC04384 | Silicon, Total | mg/L | 0.000143 | 0.0440 | 1.00 | 5.98 | 6.04 | 1.00 | 0.850 to 1.15 | 132 | 70.0 to 130 | 0.998 | 20.0 |
| BC04386 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 101 | 98.7 | 4.98 | 4.25 to 5.75 | 130 | 70.0 to 130 | 2.30 | 20.0 |
| BC04384 | Sodium, Total | mg/L | 0.000667 | 0.0660 | 5.00 | 130 | 129 | 5.18 | 4.25 to 5.75 | 40.0 | 70.0 to 130 | 0.772 | 20.0 |
| BC04386 | Thallium, Dissolved | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.0994 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.52 | 20.0 |
| BC04385 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0963 | 0.0957 | 0.0992 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.625 | 20.0 |
| BC04386 | Total Organic Carbon | mg/L | 0.220 | 1.00 | 10.0 | 14.5 | 14.6 | 10.1 | | 102 | 80.0 to 120 | 0.687 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 08:54

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-01R

Laboratory ID Number: BC04384

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|--------------|-------|---------------|
| BC04386 | Alkalinity, Total as CaCO3 | mg/L | | | | | 260 | 50.7 | 45.0 to 55.0 | | | 3.77 | 10.0 |
| BC04385 | Chloride | mg/L | -0.0588 | 1.00 | 10.0 | 15.9 | 5.15 | 10.3 | 9.00 to 11.0 | 108 | 80.0 to 120 | 1.37 | 20.0 |
| BC04385 | Fluoride | mg/L | 0.0273 | 0.125 | 2.50 | 2.70 | 0.131 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 8.76 | 20.0 |
| BC04385 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 2.16 | 0.004 | 1.87 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC04385 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 242 | 50.0 | 40.0 to 60.0 | | | 0.823 | 10.0 |
| BC04384 | Sulfate | mg/L | -0.0624 | 2.0 | 20.0 | 23.2 | 5.86 | 18.4 | 18.0 to 22.0 | 86.6 | 80.0 to 120 | 0.341 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-11R

Location Code: WMWGORAP
Collected: 3/1/22 11:20
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04385

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:34 | | 1.015 | 0.0844 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 12:15 | | 10.15 | 45.3 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:34 | | 1.015 | 2.03 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:34 | | 1.015 | 0.0281 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:34 | | 1.015 | 16.6 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:34 | | 1 | 32.7 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:34 | | 1.015 | 15.3 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 10:34 | | 1.015 | 14.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 11:30 | | 1.015 | 0.0851 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 12:58 | | 10.15 | 45.7 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 11:30 | | 1.015 | 1.30 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 11:30 | | 1.015 | 0.0276 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 11:30 | | 1.015 | 16.6 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 11:30 | | 1 | 32.3 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 11:30 | | 1.015 | 15.1 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 11:30 | | 1.015 | 14.5 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | 0.0105 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | 0.00235 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | 0.107 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | 0.000257 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | 0.000110 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | 0.0708 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | 0.000143 | mg/L | 0.000068 | 0.000203 | J |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | 1.24 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-11R

Location Code: WMWGORAP
Collected: 3/1/22 11:20
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04385

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | 0.00134 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | 0.105 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | 0.000116 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | 0.0702 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | 0.000151 | mg/L | 0.000068 | 0.000203 | J |
| * Potassium, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | 1.28 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 3/2/22 10:16 | 3/3/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 20:30 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 09:07 | 3/9/22 09:07 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 182 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | 244 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 181 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 0.76 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/9/22 14:42 | 3/9/22 14:42 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-11R

Location Code: WMWGORAP

Collected: 3/1/22 11:20

Customer ID:

Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04385

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 13:25 | 3/2/22 13:25 | | 1 | 5.08 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 12:07 | 3/3/22 12:07 | | 1 | 0.143 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:46 | 3/2/22 11:46 | | 1 | 39.4 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 3/1/22 11:17 | 3/1/22 11:17 | | | 382.55 | uS/cm | | | FA |
| pH | 3/1/22 11:17 | 3/1/22 11:17 | | | 6.68 | SU | | | FA |
| Temperature | 3/1/22 11:17 | 3/1/22 11:17 | | | 17.12 | C | | | FA |
| Turbidity | 3/1/22 11:17 | 3/1/22 11:17 | | | 7.38 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 11:20

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-11R

Laboratory ID Number: BC04385

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC04386 | Aluminum, Dissolved | mg/L | 0.0000136 | 0.010 | 0.100 | 0.0950 | 0.0967 | 0.0982 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.77 | 20.0 |
| BC04385 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.104 | 0.103 | 0.0988 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 0.966 | 20.0 |
| BC04386 | Antimony, Dissolved | mg/L | 0.000661 | 0.00100 | 0.100 | 0.0897 | 0.0908 | 0.0875 | 0.0850 to 0.115 | 89.7 | 70.0 to 130 | 1.22 | 20.0 |
| BC04385 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0935 | 0.0963 | 0.0911 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 2.95 | 20.0 |
| BC04386 | Arsenic, Dissolved | mg/L | -0.0000123 | 0.000176 | 0.100 | 0.0970 | 0.0976 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.617 | 20.0 |
| BC04385 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.100 | 0.0989 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 1.11 | 20.0 |
| BC04386 | Barium, Dissolved | mg/L | 0.0000116 | 0.000200 | 0.100 | 0.154 | 0.159 | 0.0920 | 0.0850 to 0.115 | 87.8 | 70.0 to 130 | 3.19 | 20.0 |
| BC04385 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.198 | 0.199 | 0.0932 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 0.504 | 20.0 |
| BC04386 | Beryllium, Dissolved | mg/L | 0.0000168 | 0.000880 | 0.100 | 0.0970 | 0.0968 | 0.101 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.206 | 20.0 |
| BC04385 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.102 | 0.0995 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.48 | 20.0 |
| BC04386 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.991 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.92 | 20.0 |
| BC04386 | Boron, Total | mg/L | -0.000008 | 0.0650 | 1.00 | 1.04 | 1.05 | 0.969 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.957 | 20.0 |
| BC04386 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0921 | 0.0938 | 0.0976 | 0.0850 to 0.115 | 92.1 | 70.0 to 130 | 1.83 | 20.0 |
| BC04385 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0977 | 0.0981 | 0.0979 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 102 | 99.4 | 4.95 | 4.25 to 5.75 | 106 | 70.0 to 130 | 2.58 | 20.0 |
| BC04386 | Calcium, Total | mg/L | -0.0134 | 0.152 | 5.00 | 107 | 103 | 4.76 | 4.25 to 5.75 | 194 | 70.0 to 130 | 3.81 | 20.0 |
| BC04386 | Chromium, Dissolved | mg/L | -0.0000164 | 0.000440 | 0.100 | 0.0925 | 0.0946 | 0.0978 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 2.24 | 20.0 |
| BC04385 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0977 | 0.0949 | 0.100 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 2.91 | 20.0 |
| BC04386 | Cobalt, Dissolved | mg/L | 0.0000016 | 0.000147 | 0.100 | 0.0947 | 0.0962 | 0.0998 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 1.57 | 20.0 |
| BC04385 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0985 | 0.0951 | 0.103 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 3.51 | 20.0 |
| BC04386 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 1.21 | 1.21 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Iron, Total | mg/L | -0.000052 | 0.0176 | 0.2 | 1.20 | 1.20 | 0.190 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Lead, Dissolved | mg/L | 0.0000116 | 0.000147 | 0.100 | 0.0980 | 0.0984 | 0.0961 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 11:20

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-11R

Laboratory ID Number: BC04385

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC04385 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0955 | 0.0964 | 0.0994 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 0.938 | 20.0 |
| BC04386 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.267 | 0.263 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 1.51 | 20.0 |
| BC04386 | Lithium, Total | mg/L | -0.000204 | 0.0154 | 0.200 | 0.268 | 0.268 | 0.201 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 43.8 | 42.8 | 5.16 | 4.25 to 5.75 | 118 | 70.0 to 130 | 2.31 | 20.0 |
| BC04386 | Magnesium, Total | mg/L | -0.00848 | 0.0462 | 5.00 | 46.3 | 44.6 | 5.09 | 4.25 to 5.75 | 174 | 70.0 to 130 | 3.74 | 20.0 |
| BC04386 | Manganese, Dissolved | mg/L | 0.0000034 | 0.0002 | 0.100 | 0.216 | 0.216 | 0.0988 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04385 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.169 | 0.164 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 3.00 | 20.0 |
| BC04385 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00404 | 0.00402 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.496 | 20.0 |
| BC04386 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.0997 | 0.0985 | 0.0975 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.21 | 20.0 |
| BC04385 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0975 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.409 | 20.0 |
| BC04386 | Potassium, Dissolved | mg/L | 0.0280 | 0.367 | 10.0 | 15.8 | 16.1 | 10.0 | 8.50 to 11.5 | 95.2 | 70.0 to 130 | 1.88 | 20.0 |
| BC04385 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 11.0 | 10.8 | 9.96 | 8.50 to 11.5 | 97.6 | 70.0 to 130 | 1.83 | 20.0 |
| BC04386 | Selenium, Dissolved | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC04385 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0990 | 0.0993 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.303 | 20.0 |
| BC04386 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.7 | 12.8 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.784 | 20.0 |
| BC04386 | Silicon, Total | mg/L | 0.000287 | 0.0440 | 1.00 | 12.8 | 12.8 | 0.978 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 101 | 98.7 | 4.98 | 4.25 to 5.75 | 130 | 70.0 to 130 | 2.30 | 20.0 |
| BC04386 | Sodium, Total | mg/L | 0.00143 | 0.0660 | 5.00 | 115 | 110 | 5.08 | 4.25 to 5.75 | 240 | 70.0 to 130 | 4.44 | 20.0 |
| BC04386 | Thallium, Dissolved | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.0994 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.52 | 20.0 |
| BC04385 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0963 | 0.0957 | 0.0992 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.625 | 20.0 |
| BC04386 | Total Organic Carbon | mg/L | 0.220 | 1.00 | 10.0 | 14.5 | 14.6 | 10.1 | | 102 | 80.0 to 120 | 0.687 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 11:20

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-11R

Laboratory ID Number: BC04385

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC04386 | Alkalinity, Total as CaCO3 | mg/L | | | | | 260 | 50.7 | 45.0 to 55.0 | | | 3.77 | 10.0 |
| BC04385 | Chloride | mg/L | -0.0588 | 1.00 | 10.0 | 15.9 | 5.15 | 10.3 | 9.00 to 11.0 | 108 | 80.0 to 120 | 1.37 | 20.0 |
| BC04385 | Fluoride | mg/L | 0.0273 | 0.125 | 2.50 | 2.70 | 0.131 | 2.59 | 2.25 to 2.75 | 102 | 80.0 to 120 | 8.76 | 20.0 |
| BC04385 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 2.16 | 0.004 | 1.87 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC04385 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 242 | 50.0 | 40.0 to 60.0 | | | 0.823 | 10.0 |
| BC04386 | Sulfate | mg/L | 0.0134 | 2.0 | 400 | 863 | 332 | 21.5 | 18.0 to 22.0 | 129 | 80.0 to 120 | 4.71 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-05R

Location Code: WMWGORAP
Collected: 3/1/22 13:34
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04386

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|--------------|---------------------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 3/7/22 12:00 | 3/8/22 10:36 | | 1.015 | 0.0360 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 3/7/22 12:00 | 3/8/22 12:17 | | 10.15 | 97.3 | mg/L | 0.70035 | 4.06 | RA |
| * Iron, Total | 3/7/22 12:00 | 3/8/22 10:36 | | 1.015 | 1.01 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 3/7/22 12:00 | 3/8/22 10:36 | | 1.015 | 0.0644 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 3/7/22 12:00 | 3/8/22 10:36 | | 1.015 | 37.6 | mg/L | 0.021315 | 0.406 | RA |
| Silica, Total (calc.) | 3/7/22 12:00 | 3/8/22 10:36 | | 1 | 25.3 | mg/L | | | |
| Silicon, Total | 3/7/22 12:00 | 3/8/22 10:36 | | 1.015 | 11.8 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 3/7/22 12:00 | 3/8/22 12:17 | | 10.15 | 103 | mg/L | 0.3045 | 4.06 | RA |
| Analytical Method: EPA 200.7 | | | Analyst: RDA | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 3/7/22 12:00 | 3/8/22 11:32 | | 1.015 | 0.0353 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 3/7/22 12:00 | 3/8/22 13:00 | | 10.15 | 96.7 | mg/L | 0.70035 | 4.06 | RA |
| * Iron, Dissolved | 3/7/22 12:00 | 3/8/22 11:32 | | 1.015 | 1.03 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 3/7/22 12:00 | 3/8/22 11:32 | | 1.015 | 0.0648 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 3/7/22 12:00 | 3/8/22 11:32 | | 1.015 | 37.9 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 3/7/22 12:00 | 3/8/22 11:32 | | 1 | 25.3 | mg/L | | | |
| Silicon, Dissolved | 3/7/22 12:00 | 3/8/22 11:32 | | 1.015 | 11.8 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 3/7/22 12:00 | 3/8/22 13:00 | | 10.15 | 94.5 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | 0.000484 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | 0.0695 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | 0.000353 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | 0.135 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | 0.00212 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | 6.57 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-05R

Location Code: WMWGORAP
Collected: 3/1/22 13:34
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04386

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 3/2/22 11:00 | 3/3/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | 0.000388 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | 0.0662 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | 0.120 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | 0.00185 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | 6.28 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 3/2/22 10:16 | 3/3/22 12:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ABB | | | | | | | |
| * Mercury, Total by CVAA | 3/2/22 16:00 | 3/2/22 20:50 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 3/9/22 09:12 | 3/9/22 09:12 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 270 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 3/3/22 11:15 | 3/4/22 13:09 | | 1 | 762 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 269 | mg/L | | | A |
| Carbonate Alkalinity, (calc.) | 3/8/22 13:30 | 3/8/22 15:32 | | 1 | 0.94 | mg/L | | | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 3/9/22 15:02 | 3/9/22 15:02 | | 1 | 4.29 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-05R

Location Code: WMWGORAP
Collected: 3/1/22 13:34
Customer ID:
Submittal Date: 3/1/22 15:26

Laboratory ID Number: BC04386

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 3/2/22 14:39 | 3/2/22 14:39 | | 4 | 46.4 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 3/3/22 12:24 | 3/3/22 12:24 | | 1 | 0.147 | mg/L | 0.06 | 0.1 | PA |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: CES | | | | | | | |
| * Sulfate | 3/2/22 11:51 | 3/2/22 11:51 | | 20 | 348 | mg/L | 10.00 | 20 | R |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 3/1/22 13:31 | 3/1/22 13:31 | | | 1113.20 | uS/cm | | | FA |
| pH | 3/1/22 13:31 | 3/1/22 13:31 | | | 6.77 | SU | | | FA |
| Temperature | 3/1/22 13:31 | 3/1/22 13:31 | | | 17.49 | C | | | FA |
| Turbidity | 3/1/22 13:31 | 3/1/22 13:31 | | | 1.38 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 13:34

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-05R

Laboratory ID Number: BC04386

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC04386 | Aluminum, Dissolved | mg/L | 0.0000136 | 0.010 | 0.100 | 0.0950 | 0.0967 | 0.0982 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 1.77 | 20.0 |
| BC04386 | Aluminum, Total | mg/L | 0.000438 | 0.010 | 0.100 | 0.0949 | 0.0926 | 0.0988 | 0.0850 to 0.115 | 94.9 | 70.0 to 130 | 2.45 | 20.0 |
| BC04386 | Antimony, Dissolved | mg/L | 0.000661 | 0.00100 | 0.100 | 0.0897 | 0.0908 | 0.0875 | 0.0850 to 0.115 | 89.7 | 70.0 to 130 | 1.22 | 20.0 |
| BC04386 | Antimony, Total | mg/L | 0.000579 | 0.00100 | 0.100 | 0.0934 | 0.0948 | 0.0911 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 1.49 | 20.0 |
| BC04386 | Arsenic, Dissolved | mg/L | -0.0000123 | 0.000176 | 0.100 | 0.0970 | 0.0976 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 0.617 | 20.0 |
| BC04386 | Arsenic, Total | mg/L | -0.0000059 | 0.000176 | 0.100 | 0.0981 | 0.0975 | 0.0983 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.613 | 20.0 |
| BC04386 | Barium, Dissolved | mg/L | 0.0000116 | 0.000200 | 0.100 | 0.154 | 0.159 | 0.0920 | 0.0850 to 0.115 | 87.8 | 70.0 to 130 | 3.19 | 20.0 |
| BC04386 | Barium, Total | mg/L | 0.0000125 | 0.000200 | 0.100 | 0.158 | 0.162 | 0.0932 | 0.0850 to 0.115 | 88.5 | 70.0 to 130 | 2.50 | 20.0 |
| BC04386 | Beryllium, Dissolved | mg/L | 0.0000168 | 0.000880 | 0.100 | 0.0970 | 0.0968 | 0.101 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.206 | 20.0 |
| BC04386 | Beryllium, Total | mg/L | 0.0000346 | 0.000880 | 0.100 | 0.0964 | 0.0930 | 0.0989 | 0.0850 to 0.115 | 96.4 | 70.0 to 130 | 3.59 | 20.0 |
| BC04386 | Boron, Dissolved | mg/L | -0.000083 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.991 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.92 | 20.0 |
| BC04386 | Boron, Total | mg/L | -0.000008 | 0.0650 | 1.00 | 1.04 | 1.05 | 0.969 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.957 | 20.0 |
| BC04386 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0921 | 0.0938 | 0.0976 | 0.0850 to 0.115 | 92.1 | 70.0 to 130 | 1.83 | 20.0 |
| BC04386 | Cadmium, Total | mg/L | 0.0000190 | 0.000147 | 0.100 | 0.0934 | 0.0928 | 0.0979 | 0.0850 to 0.115 | 93.4 | 70.0 to 130 | 0.644 | 20.0 |
| BC04386 | Calcium, Dissolved | mg/L | -0.0113 | 0.152 | 5.00 | 102 | 99.4 | 4.95 | 4.25 to 5.75 | 106 | 70.0 to 130 | 2.58 | 20.0 |
| BC04386 | Calcium, Total | mg/L | -0.0134 | 0.152 | 5.00 | 107 | 103 | 4.76 | 4.25 to 5.75 | 194 | 70.0 to 130 | 3.81 | 20.0 |
| BC04386 | Chromium, Dissolved | mg/L | -0.0000164 | 0.000440 | 0.100 | 0.0925 | 0.0946 | 0.0978 | 0.0850 to 0.115 | 92.5 | 70.0 to 130 | 2.24 | 20.0 |
| BC04386 | Chromium, Total | mg/L | 0.0000261 | 0.000440 | 0.100 | 0.0939 | 0.0927 | 0.100 | 0.0850 to 0.115 | 93.5 | 70.0 to 130 | 1.29 | 20.0 |
| BC04386 | Cobalt, Dissolved | mg/L | 0.0000016 | 0.000147 | 0.100 | 0.0947 | 0.0962 | 0.0998 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 1.57 | 20.0 |
| BC04386 | Cobalt, Total | mg/L | 0.0000209 | 0.000147 | 0.100 | 0.0957 | 0.0944 | 0.103 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 1.37 | 20.0 |
| BC04386 | Iron, Dissolved | mg/L | 0.000121 | 0.0176 | 0.2 | 1.21 | 1.21 | 0.196 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Iron, Total | mg/L | -0.000052 | 0.0176 | 0.2 | 1.20 | 1.20 | 0.190 | 0.170 to 0.230 | 95.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Lead, Dissolved | mg/L | 0.0000116 | 0.000147 | 0.100 | 0.0980 | 0.0984 | 0.0961 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.407 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 3/1/22 13:34
Customer ID:
Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-05R

Laboratory ID Number: BC04386

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC04386 | Lead, Total | mg/L | 0.0000534 | 0.000147 | 0.100 | 0.0990 | 0.101 | 0.0994 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 2.00 | 20.0 |
| BC04386 | Lithium, Dissolved | mg/L | -0.000144 | 0.0154 | 0.200 | 0.267 | 0.263 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 1.51 | 20.0 |
| BC04386 | Lithium, Total | mg/L | -0.000204 | 0.0154 | 0.200 | 0.268 | 0.268 | 0.201 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Magnesium, Dissolved | mg/L | -0.00653 | 0.0462 | 5.00 | 43.8 | 42.8 | 5.16 | 4.25 to 5.75 | 118 | 70.0 to 130 | 2.31 | 20.0 |
| BC04386 | Magnesium, Total | mg/L | -0.00848 | 0.0462 | 5.00 | 46.3 | 44.6 | 5.09 | 4.25 to 5.75 | 174 | 70.0 to 130 | 3.74 | 20.0 |
| BC04386 | Manganese, Dissolved | mg/L | 0.0000034 | 0.0002 | 0.100 | 0.216 | 0.216 | 0.0988 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Manganese, Total | mg/L | 0.0000276 | 0.0002 | 0.100 | 0.223 | 0.221 | 0.102 | 0.0850 to 0.115 | 88.0 | 70.0 to 130 | 0.901 | 20.0 |
| BC04386 | Mercury, Total by CVAA | mg/L | 0.00015 | 0.000500 | 0.004 | 0.00405 | 0.00403 | 0.00394 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.495 | 20.0 |
| BC04386 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.0997 | 0.0985 | 0.0975 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.21 | 20.0 |
| BC04386 | Molybdenum, Total | mg/L | 0.0000189 | 0.0002 | 0.100 | 0.0988 | 0.0970 | 0.0970 | 0.0850 to 0.115 | 96.7 | 70.0 to 130 | 1.84 | 20.0 |
| BC04386 | Potassium, Dissolved | mg/L | 0.0280 | 0.367 | 10.0 | 15.8 | 16.1 | 10.0 | 8.50 to 11.5 | 95.2 | 70.0 to 130 | 1.88 | 20.0 |
| BC04386 | Potassium, Total | mg/L | 0.0237 | 0.367 | 10.0 | 16.0 | 15.8 | 9.96 | 8.50 to 11.5 | 94.3 | 70.0 to 130 | 1.26 | 20.0 |
| BC04386 | Selenium, Dissolved | mg/L | 0.0000768 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC04386 | Selenium, Total | mg/L | 0.0000741 | 0.00100 | 0.100 | 0.0997 | 0.0961 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.68 | 20.0 |
| BC04386 | Silicon, Dissolved | mg/L | -0.000895 | 0.0440 | 1.00 | 12.7 | 12.8 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.784 | 20.0 |
| BC04386 | Silicon, Total | mg/L | 0.000287 | 0.0440 | 1.00 | 12.8 | 12.8 | 0.978 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC04386 | Sodium, Dissolved | mg/L | 0.000319 | 0.0660 | 5.00 | 101 | 98.7 | 4.98 | 4.25 to 5.75 | 130 | 70.0 to 130 | 2.30 | 20.0 |
| BC04386 | Sodium, Total | mg/L | 0.00143 | 0.0660 | 5.00 | 115 | 110 | 5.08 | 4.25 to 5.75 | 240 | 70.0 to 130 | 4.44 | 20.0 |
| BC04386 | Thallium, Dissolved | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.0994 | 0.0979 | 0.0970 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.52 | 20.0 |
| BC04386 | Thallium, Total | mg/L | 0.0000465 | 0.000147 | 0.100 | 0.0987 | 0.101 | 0.0992 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 2.30 | 20.0 |
| BC04386 | Total Organic Carbon | mg/L | 0.220 | 1.00 | 10.0 | 14.5 | 14.6 | 10.1 | | 102 | 80.0 to 120 | 0.687 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 3/1/22 13:34

Customer ID:

Delivery Date: 3/1/22 15:26

Description: Gorgas Ash Pond - MW-05R

Laboratory ID Number: BC04386

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC04386 | Alkalinity, Total as CaCO3 | mg/L | | | | | 260 | 50.7 | 45.0 to 55.0 | | | 3.77 | 10.0 |
| BC04386 | Chloride | mg/L | -0.0388 | 1.00 | 40.0 | 89.2 | 48.8 | 10.4 | 9.00 to 11.0 | 107 | 80.0 to 120 | 5.04 | 20.0 |
| BC04386 | Fluoride | mg/L | 0.00164 | 0.125 | 2.50 | 2.55 | 0.181 | 2.58 | 2.25 to 2.75 | 96.1 | 80.0 to 120 | 20.7 | 20.0 |
| BC04386 | Nitrogen, Nitrate/Nitrite | mg/L as N | -0.01 | 0.200 | 2.00 | 1.93 | -0.024 | 1.94 | 1.80 to 2.20 | 96.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC04386 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 754 | 50.0 | 40.0 to 60.0 | | | 1.06 | 10.0 |
| BC04386 | Sulfate | mg/L | 0.0134 | 2.0 | 400 | 863 | 332 | 21.5 | 18.0 to 22.0 | 129 | 80.0 to 120 | 4.71 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Definitions

Project Number: WMWGORAP_1350

| Abbreviation | Description |
|--------------|---|
| DF | Dilution Factor |
| LCS | Lab Control Sample |
| LFM | Lab Fortified Matrix |
| MB | Method Blank |
| MDL | Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero. |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| Prec | Precision (% RPD) |
| Q | Qualifier; comment used to note deviations or additional information associated with analytical results. |
| QC | Quality Control |
| Rec | Recovery of Matrix Spike |
| RL | Reporting Limit; lowest concentration at which an analyte can be quantitatively measured. |
| Vio Spec | Violation Specification; regulatory limit which has been exceeded by the sample analyzed. |

| Qualifier | Description |
|-----------|--|
| A | Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L. |
| AI | Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are invalid due to pH>12SU and not reported. |
| FA | Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative. |
| HT | Analysis was performed outside of the analytical holding time. |
| J | Reported value is an estimate because concentration is less than reporting limit. |
| PA | Precision is invalid due to sample concentration. |
| R | Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit. |
| RA | Matrix spike is invalid due to sample concentration. |
| U | Compound was analyzed, but not detected. |



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

| | | | |
|-------------------------|--------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Dallas Gentry | | Requested By: Greg Dyer |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | |
|---------|-----------|--------|-------|-----|-------|-----|-------|-----|
| Bottles | 1 Radium | 1 L | 3 N/A | N/A | 5 N/A | N/A | 7 N/A | N/A |
| | 2 Sulfide | 250 mL | 4 N/A | N/A | 6 N/A | N/A | 8 N/A | N/A |

| | |
|----------|-----------------------------------|
| Comments | Sulfide bottles pH>9. LBM 2/23/22 |
|----------|-----------------------------------|

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-43H | 02/21/2022 | 11:43 | 2 | Groundwater | | BC03974 |
| PZ-18R | 02/21/2022 | 14:40 | 2 | Groundwater | | BC03975 |
| MW-36V | 02/22/2022 | 10:06 | 2 | Groundwater | | BC03976 |
| MW-27HR | 02/22/2022 | 12:03 | 2 | Groundwater | | BC03977 |
| FB-6 | 02/22/2022 | 12:40 | 2 | Field Blank | | BC03978 |
| MW-18R | 02/22/2022 | 13:42 | 2 | Groundwater | | BC03979 |
| MW-18R dup | 02/22/2022 | 13:42 | 2 | Sample Duplicate | | BC03980 |
| MW-18VR | 02/22/2022 | 15:15 | 2 | Groundwater | | BC03981 |
| MW-45V | 02/23/2022 | 11:29 | 2 | Groundwater | | BC03982 |
| MW-03V | 02/23/2022 | 12:49 | 2 | Groundwater | | BC03983 |
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|-----------------|----------------------|------------------|
| Relinquished By | Received By | Date/Time |
| <i>Mel Dyer</i> | <i>Laura M. Dyer</i> | 02/23/2022 15:22 |
| | | |
| | | |

| | | |
|----------------|-------------------------------|---|
| SmarTroll ID | 7586-41443-5-2 | All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/> |
| Turbidity ID | 3901-20010-2-2 | |
| Sample Event | 1350 | |
| | | |
| Cooler Temp | 0.0 degrees C & 0.8 degrees C | |
| Thermometer ID | 5408-27568-2-2 | |
| pH Strip ID | 9772-56581-100-3 | |

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|-------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: TJ Daugherty | | Requested By |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | | | | | |
|---------|---|---------|--------|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
| | 2 | Sulfide | 250 mL | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments: Sulfide bottles pH>9. LBM 3/1/22

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-----------------|------------|---------|
| MW-12 | 02/28/2022 | 14:40 | 2 | Groundwater | | BC04392 |
| MW-09R | 03/01/2022 | 12:04 | 2 | Groundwater | | BC04393 |
| EB-1 | 03/01/2022 | 12:30 | 2 | Equipment Blank | | BC04394 |
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|-----------------|-------------|------------------|
| Relinquished By | Received By | Date/Time |
| | | 03/01/2022 14:28 |
| | | |
| | | |

| | |
|--------------|----------------|
| SmarTroll ID | 7586-41445-5-4 |
| Turbidity ID | 4677-23342-4-1 |
| Sample Event | 1350 |

All metals and radiological bottles have pH < 2

| | |
|----------------|------------------|
| Cooler Temp | 0.2 degrees C |
| Thermometer ID | 5408-27568-2-2 |
| pH Strip ID | 9772-56581-100-3 |

Bottles/Pre-Preserved Bottles are provided by the GTL

March 14, 2022

Laura Midkiff
Alabama Power
744 Highway 87
GSC 8
Calera, AL 35040

RE: Project: WMWGORAP_1350
Pace Project No.: 20234691

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2022 and March 02, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - New Orleans

3-9 This is a revised report. Sample MW-43H was originally overrange and reanalyzed outside of holding time to confirm original result. Original "in hold" result now appears.

3-14 This is a second revision to correct several sample IDs and collection times. Also, MW-43H was NOT originally over calibration range, as previously indicated, however reanalysis outside of holding time confirmed original result. Original result is reported.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Karen Brown
karen.brown@pacelabs.com
(504)469-0333
Project Manager

Enclosures

cc: Renee Jernigan, Alabama Power
Trinity B. Williams, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGORAP_1350

Pace Project No.: 20234691

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1350

Pace Project No.: 20234691

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 20234691001 | BC02839 MW-7 | Water | 02/08/22 11:20 | 02/10/22 14:55 |
| 20234691002 | BC02840 MW-7 DIS | Water | 02/08/22 11:20 | 02/10/22 14:55 |
| 20234691003 | BC02841 MW-41 HS | Water | 02/08/22 14:43 | 02/10/22 14:55 |
| 20234691004 | BC02842 MW-6V | Water | 02/09/22 12:00 | 02/10/22 14:55 |
| 20234691005 | BC02843 MW-30 HA | Water | 02/08/22 09:36 | 02/10/22 14:55 |
| 20234691006 | BC02844 MW-21 | Water | 02/08/22 11:11 | 02/10/22 14:55 |
| 20234691007 | BC02845 MW-21V | Water | 02/08/22 13:38 | 02/10/22 14:55 |
| 20234691008 | BC02846 MW-31H | Water | 02/08/22 16:04 | 02/10/22 14:55 |
| 20234691009 | BC03250 PZ-22 | Water | 02/14/22 10:21 | 02/16/22 09:40 |
| 20234691010 | BC03251 MW-17 | Water | 02/14/22 11:42 | 02/16/22 09:40 |
| 20234691011 | BC03252 MW-17V | Water | 02/14/22 12:54 | 02/16/22 09:40 |
| 20234691012 | BC03253 MW-36H | Water | 02/14/22 15:28 | 02/16/22 09:40 |
| 20234691013 | BC03254 MW-6S | Water | 02/14/22 11:18 | 02/16/22 09:40 |
| 20234691014 | BC03255 MW-6S DUP | Water | 02/14/22 11:18 | 02/16/22 09:40 |
| 20234691015 | BC03256 MW-6D | Water | 02/14/22 12:34 | 02/16/22 09:40 |
| 20234691016 | BC03257 MW-23H | Water | 02/14/22 13:47 | 02/16/22 09:40 |
| 20234691017 | BC03258 MW-23H DUP | Water | 02/14/22 13:47 | 02/16/22 09:40 |
| 20234691018 | BC03259 MW-28H | Water | 02/14/22 12:42 | 02/16/22 09:40 |
| 20234691019 | BC03260 MW-28H DUP | Water | 02/14/22 12:42 | 02/16/22 09:40 |
| 20234691020 | BC03261 MW-29H | Water | 02/14/22 14:30 | 02/16/22 09:40 |
| 20234691021 | BC03262 FB-3 | Water | 02/14/22 15:10 | 02/16/22 09:40 |
| 20234691022 | BC03263 MW-32H | Water | 02/14/22 15:45 | 02/16/22 09:40 |
| 20234691023 | BC03539 PZ-16 | Water | 02/15/22 11:08 | 02/18/22 10:00 |
| 20234691024 | BC03540 MW-16D | Water | 02/15/22 12:48 | 02/18/22 10:00 |
| 20234691025 | BC03541 MW-16S | Water | 02/15/22 13:52 | 02/18/22 10:00 |
| 20234691026 | BC03542 FB-2 | Water | 02/15/22 14:45 | 02/18/22 10:00 |
| 20234691027 | BC03543 MW-15 | Water | 02/16/22 10:39 | 02/18/22 10:00 |
| 20234691028 | BC03544 MW-15V | Water | 02/16/22 11:45 | 02/18/22 10:00 |
| 20234691029 | BC03545 MW-25HA | Water | 02/16/22 13:22 | 02/18/22 10:00 |
| 20234691030 | BC03546 MW-41HD | Water | 02/15/22 09:25 | 02/18/22 10:00 |
| 20234691031 | BC03547 MW-24H | Water | 02/15/22 10:37 | 02/18/22 10:00 |
| 20234691032 | BC03548 MW-24H DUP | Water | 02/15/22 10:37 | 02/18/22 10:00 |
| 20234691033 | BC03549 MW-40H | Water | 02/15/22 12:25 | 02/18/22 10:00 |
| 20234691034 | BC03550 MW-26H | Water | 02/15/22 14:13 | 02/18/22 10:00 |
| 20234691035 | BC03551 MW-42H | Water | 02/16/22 10:43 | 02/18/22 10:00 |
| 20234691036 | BC03552 MW-8 | Water | 02/16/22 12:14 | 02/18/22 10:00 |
| 20234691037 | BC03553 MW-3 | Water | 02/16/22 14:57 | 02/18/22 10:00 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1350

Pace Project No.: 20234691

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 20234691038 | BC03554 FB-1 | Water | 02/16/22 15:50 | 02/18/22 10:00 |
| 20234691039 | BC03974 MW-43H | Water | 02/21/22 11:43 | 02/24/22 10:30 |
| 20234691040 | BC03975 PZ-18R | Water | 02/21/22 14:40 | 02/24/22 10:30 |
| 20234691041 | BC03976 MW-36V | Water | 02/22/22 10:06 | 02/24/22 10:30 |
| 20234691042 | BC03977 MW-27HR | Water | 02/22/22 12:03 | 02/24/22 10:30 |
| 20234691043 | BC03978 FB-6 | Water | 02/22/22 12:40 | 02/24/22 10:30 |
| 20234691044 | BC03979 MW-18R | Water | 02/22/22 13:42 | 02/24/22 10:30 |
| 20234691045 | BC03980 MW-18R DUP | Water | 02/22/22 13:42 | 02/24/22 10:30 |
| 20234691046 | BC03981 MW-18VR | Water | 02/22/22 15:15 | 02/24/22 10:30 |
| 20234691047 | BC03982 MW-45V | Water | 02/23/22 11:29 | 02/24/22 10:30 |
| 20234691048 | BC03983 MW-03V | Water | 02/23/22 12:49 | 02/24/22 10:30 |
| 20234691049 | BC03984 MW-9V | Water | 02/21/22 12:08 | 02/24/22 10:30 |
| 20234691050 | BC03985 MW-38H | Water | 02/22/22 09:35 | 02/24/22 10:30 |
| 20234691051 | BC03986 MW-19 | Water | 02/22/22 11:18 | 02/24/22 10:30 |
| 20234691052 | BC03987 MW-19 DUP | Water | 02/22/22 11:18 | 02/24/22 10:30 |
| 20234691053 | BC03988 MW-2 | Water | 02/22/22 13:17 | 02/24/22 10:30 |
| 20234691054 | BC03989 MW-12V | Water | 02/23/22 12:33 | 02/24/22 10:30 |
| 20234691055 | BC03990 FB-5 | Water | 02/23/22 13:30 | 02/24/22 10:30 |
| 20234691056 | BC03991 MW-31V | Water | 02/22/22 13:07 | 02/24/22 10:30 |
| 20234691057 | BC03992 MW-46 | Water | 02/23/22 10:30 | 02/24/22 10:30 |
| 20234691058 | BC03993 FB-4 | Water | 02/23/22 11:00 | 02/24/22 10:30 |
| 20234691059 | BC03994 MW-23V | Water | 02/23/22 13:33 | 02/24/22 10:30 |
| 20234691060 | BC04387 MW-37HR | Water | 02/28/22 12:20 | 03/02/22 08:45 |
| 20234691061 | BC04388 MW-47 | Water | 02/28/22 14:12 | 03/02/22 08:45 |
| 20234691062 | BC04389 MW-14R | Water | 02/28/22 15:33 | 03/02/22 08:45 |
| 20234691063 | BC04390 MW-13R | Water | 03/01/22 08:34 | 03/02/22 08:45 |
| 20234691064 | BC04391 MW-10R | Water | 03/01/22 12:07 | 03/02/22 08:45 |
| 20234691065 | BC04392 MW-12 | Water | 02/28/22 14:40 | 03/02/22 08:45 |
| 20234691066 | BC04393 MW-09R | Water | 03/01/22 12:04 | 03/02/22 08:45 |
| 20234691067 | BC04394 EB-1 | Water | 03/01/22 12:30 | 03/02/22 08:45 |
| 20234691068 | BC04395 MW-01R | Water | 03/01/22 08:54 | 03/02/22 08:45 |
| 20234691069 | BC04396 MW-11R | Water | 03/01/22 11:20 | 03/02/22 08:45 |
| 20234691070 | BC04397 MW-05R | Water | 03/01/22 13:34 | 03/02/22 08:45 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1350

Pace Project No.: 20234691

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|--------------------|---------------|----------|-------------------|
| 20234691001 | BC02839 MW-7 | SM 4500-S-2 D | RVJ | 1 |
| 20234691002 | BC02840 MW-7 DIS | SM 4500-S-2 D | RVJ | 1 |
| 20234691003 | BC02841 MW-41 HS | SM 4500-S-2 D | RVJ | 1 |
| 20234691004 | BC02842 MW-6V | SM 4500-S-2 D | RVJ | 1 |
| 20234691005 | BC02843 MW-30 HA | SM 4500-S-2 D | RVJ | 1 |
| 20234691006 | BC02844 MW-21 | SM 4500-S-2 D | RVJ | 1 |
| 20234691007 | BC02845 MW-21V | SM 4500-S-2 D | RVJ | 1 |
| 20234691008 | BC02846 MW-31H | SM 4500-S-2 D | RVJ | 1 |
| 20234691009 | BC03250 PZ-22 | SM 4500-S-2 D | RVJ | 1 |
| 20234691010 | BC03251 MW-17 | SM 4500-S-2 D | RVJ | 1 |
| 20234691011 | BC03252 MW-17V | SM 4500-S-2 D | RVJ | 1 |
| 20234691012 | BC03253 MW-36H | SM 4500-S-2 D | RVJ | 1 |
| 20234691013 | BC03254 MW-6S | SM 4500-S-2 D | RVJ | 1 |
| 20234691014 | BC03255 MW-6S DUP | SM 4500-S-2 D | RVJ | 1 |
| 20234691015 | BC03256 MW-6D | SM 4500-S-2 D | RVJ | 1 |
| 20234691016 | BC03257 MW-23H | SM 4500-S-2 D | RVJ | 1 |
| 20234691017 | BC03258 MW-23H DUP | SM 4500-S-2 D | RVJ | 1 |
| 20234691018 | BC03259 MW-28H | SM 4500-S-2 D | RVJ | 1 |
| 20234691019 | BC03260 MW-28H DUP | SM 4500-S-2 D | RVJ | 1 |
| 20234691020 | BC03261 MW-29H | SM 4500-S-2 D | RVJ | 1 |
| 20234691021 | BC03262 FB-3 | SM 4500-S-2 D | RVJ | 1 |
| 20234691022 | BC03263 MW-32H | SM 4500-S-2 D | RVJ | 1 |
| 20234691023 | BC03539 PZ-16 | SM 4500-S-2 D | RVJ | 1 |
| 20234691024 | BC03540 MW-16D | SM 4500-S-2 D | RVJ | 1 |
| 20234691025 | BC03541 MW-16S | SM 4500-S-2 D | RVJ | 1 |
| 20234691026 | BC03542 FB-2 | SM 4500-S-2 D | RVJ | 1 |
| 20234691027 | BC03543 MW-15 | SM 4500-S-2 D | RVJ | 1 |
| 20234691028 | BC03544 MW-15V | SM 4500-S-2 D | RVJ | 1 |
| 20234691029 | BC03545 MW-25HA | SM 4500-S-2 D | RVJ | 1 |
| 20234691030 | BC03546 MW-41HD | SM 4500-S-2 D | RVJ | 1 |
| 20234691031 | BC03547 MW-24H | SM 4500-S-2 D | RVJ | 1 |
| 20234691032 | BC03548 MW-24H DUP | SM 4500-S-2 D | RVJ | 1 |
| 20234691033 | BC03549 MW-40H | SM 4500-S-2 D | RVJ | 1 |
| 20234691034 | BC03550 MW-26H | SM 4500-S-2 D | RVJ | 1 |
| 20234691035 | BC03551 MW-42H | SM 4500-S-2 D | RVJ | 1 |
| 20234691036 | BC03552 MW-8 | SM 4500-S-2 D | RVJ | 1 |
| 20234691037 | BC03553 MW-3 | SM 4500-S-2 D | RVJ | 1 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|--------------------|---------------|----------|-------------------|
| 20234691038 | BC03554 FB-1 | SM 4500-S-2 D | RVJ | 1 |
| 20234691039 | BC03974 MW-43H | SM 4500-S-2 D | RVJ | 1 |
| 20234691040 | BC03975 PZ-18R | SM 4500-S-2 D | RVJ | 1 |
| 20234691041 | BC03976 MW-36V | SM 4500-S-2 D | DWR | 1 |
| 20234691042 | BC03977 MW-27HR | SM 4500-S-2 D | DWR | 1 |
| 20234691043 | BC03978 FB-6 | SM 4500-S-2 D | DWR | 1 |
| 20234691044 | BC03979 MW-18R | SM 4500-S-2 D | DWR | 1 |
| 20234691045 | BC03980 MW-18R DUP | SM 4500-S-2 D | DWR | 1 |
| 20234691046 | BC03981 MW-18VR | SM 4500-S-2 D | DWR | 1 |
| 20234691047 | BC03982 MW-45V | SM 4500-S-2 D | DWR | 1 |
| 20234691048 | BC03983 MW-03V | SM 4500-S-2 D | DWR | 1 |
| 20234691049 | BC03984 MW-9V | SM 4500-S-2 D | RVJ | 1 |
| 20234691050 | BC03985 MW-38H | SM 4500-S-2 D | DWR | 1 |
| 20234691051 | BC03986 MW-19 | SM 4500-S-2 D | DWR | 1 |
| 20234691052 | BC03987 MW-19 DUP | SM 4500-S-2 D | DWR | 1 |
| 20234691053 | BC03988 MW-2 | SM 4500-S-2 D | DWR | 1 |
| 20234691054 | BC03989 MW-12V | SM 4500-S-2 D | DWR | 1 |
| 20234691055 | BC03990 FB-5 | SM 4500-S-2 D | DWR | 1 |
| 20234691056 | BC03991 MW-31V | SM 4500-S-2 D | DWR | 1 |
| 20234691057 | BC03992 MW-46 | SM 4500-S-2 D | DWR | 1 |
| 20234691058 | BC03993 FB-4 | SM 4500-S-2 D | DWR | 1 |
| 20234691059 | BC03994 MW-23V | SM 4500-S-2 D | DWR | 1 |
| 20234691060 | BC04387 MW-37HR | SM 4500-S-2 D | ABW | 1 |
| 20234691061 | BC04388 MW-47 | SM 4500-S-2 D | ABW | 1 |
| 20234691062 | BC04389 MW-14R | SM 4500-S-2 D | ABW | 1 |
| 20234691063 | BC04390 MW-13R | SM 4500-S-2 D | ABW | 1 |
| 20234691064 | BC04391 MW-10R | SM 4500-S-2 D | ABW | 1 |
| 20234691065 | BC04392 MW-12 | SM 4500-S-2 D | ABW | 1 |
| 20234691066 | BC04393 MW-09R | SM 4500-S-2 D | ABW | 1 |
| 20234691067 | BC04394 EB-1 | SM 4500-S-2 D | ABW | 1 |
| 20234691068 | BC04395 MW-01R | SM 4500-S-2 D | ABW | 1 |
| 20234691069 | BC04396 MW-11R | SM 4500-S-2 D | ABW | 1 |
| 20234691070 | BC04397 MW-05R | SM 4500-S-2 D | ABW | 1 |

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1350
Pace Project No.: 20234691

Method: SM 4500-S-2 D
Description: 4500S2D Sulfide, Total
Client: Alabama Power
Date: March 14, 2022

General Information:

70 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 247536

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20234691001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1175616)
- Sulfide, Total

QC Batch: 248002

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20235052003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1177803)
- Sulfide, Total

QC Batch: 248250

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20234691018

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1178984)
- Sulfide, Total

QC Batch: 248358

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20235249002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1179384)
- Sulfide, Total

QC Batch: 248977

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20236121001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1182553)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1350
Pace Project No.: 20234691

Method: SM 4500-S-2 D
Description: 4500S2D Sulfide, Total
Client: Alabama Power
Date: March 14, 2022

QC Batch: 248977

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20236121001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Sulfide, Total

QC Batch: 249264

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20236115001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1184005)
- Sulfide, Total

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

The sample originally chosen for QC for the batch was later canceled; acceptable method performance was demonstrated by the LCS recovery.

- QC Batch: 248738

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC02839 MW-7 | | | | | | | | | |
|--|--------------|----------------------------|---------------------------|-------|--------------------------|----------|----------------|------------|------|
| | | Lab ID: 20234691001 | Collected: 02/08/22 11:20 | | Received: 02/10/22 14:55 | | Matrix: Water | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.18 | mg/L | 0.020 | 0.012 | 1 | | 02/13/22 13:14 | 18496-25-8 | M1 |
| Sample: BC02840 MW-7 DIS | | | | | | | | | |
| | | Lab ID: 20234691002 | Collected: 02/08/22 11:20 | | Received: 02/10/22 14:55 | | Matrix: Water | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.23 | mg/L | 0.020 | 0.012 | 1 | | 02/13/22 13:41 | 18496-25-8 | |
| Sample: BC02841 MW-41 HS | | | | | | | | | |
| | | Lab ID: 20234691003 | Collected: 02/08/22 14:43 | | Received: 02/10/22 14:55 | | Matrix: Water | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/13/22 13:41 | 18496-25-8 | |
| Sample: BC02842 MW-6V | | | | | | | | | |
| | | Lab ID: 20234691004 | Collected: 02/09/22 12:00 | | Received: 02/10/22 14:55 | | Matrix: Water | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.054 | mg/L | 0.020 | 0.012 | 1 | | 02/13/22 13:43 | 18496-25-8 | |
| Sample: BC02843 MW-30 HA | | | | | | | | | |
| | | Lab ID: 20234691005 | Collected: 02/08/22 09:36 | | Received: 02/10/22 14:55 | | Matrix: Water | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.12 | mg/L | 0.020 | 0.012 | 1 | | 02/13/22 13:43 | 18496-25-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC02844 MW-21 Lab ID: 20234691006 Collected: 02/08/22 11:11 Received: 02/10/22 14:55 Matrix: Water | | | | | | | | | |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 2.1 | mg/L | 0.50 | 0.30 | 25 | | 02/13/22 14:06 | 18496-25-8 | |
| Sample: BC02845 MW-21V Lab ID: 20234691007 Collected: 02/08/22 13:38 Received: 02/10/22 14:55 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.30 | mg/L | 0.020 | 0.012 | 1 | | 02/13/22 13:44 | 18496-25-8 | |
| Sample: BC02846 MW-31H Lab ID: 20234691008 Collected: 02/08/22 16:04 Received: 02/10/22 14:55 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 3.0 | mg/L | 0.50 | 0.30 | 25 | | 02/13/22 14:07 | 18496-25-8 | |
| Sample: BC03250 PZ-22 Lab ID: 20234691009 Collected: 02/14/22 10:21 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.012J | mg/L | 0.020 | 0.012 | 1 | | 02/17/22 15:19 | 18496-25-8 | |
| Sample: BC03251 MW-17 Lab ID: 20234691010 Collected: 02/14/22 11:42 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.016J | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 16:21 | 18496-25-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC03252 MW-17V Lab ID: 20234691011 Collected: 02/14/22 12:54 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
|--|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.057 | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 16:22 | 18496-25-8 | |
| Sample: BC03253 MW-36H Lab ID: 20234691012 Collected: 02/14/22 15:28 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.018J | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 16:23 | 18496-25-8 | |
| Sample: BC03254 MW-6S Lab ID: 20234691013 Collected: 02/14/22 11:18 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 16:24 | 18496-25-8 | |
| Sample: BC03255 MW-6S DUP Lab ID: 20234691014 Collected: 02/14/22 11:18 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 16:24 | 18496-25-8 | |
| Sample: BC03256 MW-6D Lab ID: 20234691015 Collected: 02/14/22 12:34 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 2.9 | mg/L | 0.20 | 0.12 | 10 | | 02/21/22 16:25 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC03257 MW-23H Lab ID: 20234691016 Collected: 02/14/22 13:47 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 16:26 | 18496-25-8 | |
| Sample: BC03258 MW-23H DUP Lab ID: 20234691017 Collected: 02/14/22 13:47 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 14:58 | 18496-25-8 | |
| Sample: BC03259 MW-28H Lab ID: 20234691018 Collected: 02/14/22 12:42 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 14:59 | 18496-25-8 | M1 |
| Sample: BC03260 MW-28H DUP Lab ID: 20234691019 Collected: 02/14/22 12:42 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 15:42 | 18496-25-8 | |
| Sample: BC03261 MW-29H Lab ID: 20234691020 Collected: 02/14/22 14:30 Received: 02/16/22 09:40 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.054 | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 15:43 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC03262 FB-3 | | | | | | | | | |
|--|--------------|----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| | | Lab ID: 20234691021 | | Collected: 02/14/22 15:10 | | Received: 02/16/22 09:40 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 15:44 | 18496-25-8 | |
| Sample: BC03263 MW-32H | | | | | | | | | |
| | | Lab ID: 20234691022 | | Collected: 02/14/22 15:45 | | Received: 02/16/22 09:40 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.054 | mg/L | 0.020 | 0.012 | 1 | | 02/21/22 15:44 | 18496-25-8 | |
| Sample: BC03539 PZ-16 | | | | | | | | | |
| | | Lab ID: 20234691023 | | Collected: 02/15/22 11:08 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.13 | mg/L | 0.020 | 0.012 | 1 | | 02/22/22 15:15 | 18496-25-8 | |
| Sample: BC03540 MW-16D | | | | | | | | | |
| | | Lab ID: 20234691024 | | Collected: 02/15/22 12:48 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/22/22 15:15 | 18496-25-8 | |
| Sample: BC03541 MW-16S | | | | | | | | | |
| | | Lab ID: 20234691025 | | Collected: 02/15/22 13:52 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/22/22 15:49 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC03542 FB-2 | | | | | | | | | |
|--|-------------|----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| | | Lab ID: 20234691026 | | Collected: 02/15/22 14:45 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/22/22 15:49 | 18496-25-8 | |
| Sample: BC03543 MW-15 | | | | | | | | | |
| | | Lab ID: 20234691027 | | Collected: 02/16/22 10:39 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.73 | mg/L | 0.10 | 0.059 | 5 | | 02/23/22 15:08 | 18496-25-8 | |
| Sample: BC03544 MW-15V | | | | | | | | | |
| | | Lab ID: 20234691028 | | Collected: 02/16/22 11:45 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/23/22 15:22 | 18496-25-8 | |
| Sample: BC03545 MW-25HA | | | | | | | | | |
| | | Lab ID: 20234691029 | | Collected: 02/16/22 13:22 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 2.0 | mg/L | 0.50 | 0.30 | 25 | | 02/23/22 15:27 | 18496-25-8 | |
| Sample: BC03546 MW-41HD | | | | | | | | | |
| | | Lab ID: 20234691030 | | Collected: 02/15/22 09:25 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/22/22 15:50 | 18496-25-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC03547 MW-24H Lab ID: 20234691031 Collected: 02/15/22 10:37 Received: 02/18/22 10:00 Matrix: Water | | | | | | | | | |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/22/22 15:51 | 18496-25-8 | |
| Sample: BC03548 MW-24H DUP Lab ID: 20234691032 Collected: 02/15/22 10:37 Received: 02/18/22 10:00 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/22/22 15:52 | 18496-25-8 | |
| Sample: BC03549 MW-40H Lab ID: 20234691033 Collected: 02/15/22 12:25 Received: 02/18/22 10:00 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/22/22 15:53 | 18496-25-8 | |
| Sample: BC03550 MW-26H Lab ID: 20234691034 Collected: 02/15/22 14:13 Received: 02/18/22 10:00 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.19 | mg/L | 0.020 | 0.012 | 1 | | 02/22/22 15:54 | 18496-25-8 | |
| Sample: BC03551 MW-42H Lab ID: 20234691035 Collected: 02/16/22 10:43 Received: 02/18/22 10:00 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/23/22 15:22 | 18496-25-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC03552 MW-8 | | | | | | | | | |
|--|---------|----------------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| | | Lab ID: 20234691036 | | Collected: 02/16/22 12:14 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/23/22 15:23 | 18496-25-8 | |
| Sample: BC03553 MW-3 | | | | | | | | | |
| | | Lab ID: 20234691037 | | Collected: 02/16/22 14:57 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/23/22 15:23 | 18496-25-8 | |
| Sample: BC03554 FB-1 | | | | | | | | | |
| | | Lab ID: 20234691038 | | Collected: 02/16/22 15:50 | | Received: 02/18/22 10:00 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/23/22 15:24 | 18496-25-8 | |
| Sample: BC03974 MW-43H | | | | | | | | | |
| | | Lab ID: 20234691039 | | Collected: 02/21/22 11:43 | | Received: 02/24/22 10:30 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 11.2 | mg/L | 0.50 | 0.30 | 25 | | 02/25/22 15:14 | 18496-25-8 | |
| Sample: BC03975 PZ-18R | | | | | | | | | |
| | | Lab ID: 20234691040 | | Collected: 02/21/22 14:40 | | Received: 02/24/22 10:30 | | Matrix: Water | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/25/22 15:22 | 18496-25-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC03976 MW-36V Lab ID: 20234691041 Collected: 02/22/22 10:06 Received: 02/24/22 10:30 Matrix: Water | | | | | | | | | |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.71 | mg/L | 0.10 | 0.059 | 5 | | 03/01/22 16:12 | 18496-25-8 | |
| Sample: BC03977 MW-27HR Lab ID: 20234691042 Collected: 02/22/22 12:03 Received: 02/24/22 10:30 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 1.5 | mg/L | 0.10 | 0.059 | 5 | | 03/01/22 16:26 | 18496-25-8 | |
| Sample: BC03978 FB-6 Lab ID: 20234691043 Collected: 02/22/22 12:40 Received: 02/24/22 10:30 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 03/01/22 16:21 | 18496-25-8 | |
| Sample: BC03979 MW-18R Lab ID: 20234691044 Collected: 02/22/22 13:42 Received: 02/24/22 10:30 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 03/01/22 16:23 | 18496-25-8 | |
| Sample: BC03980 MW-18R DUP Lab ID: 20234691045 Collected: 02/22/22 13:42 Received: 02/24/22 10:30 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 03/01/22 16:23 | 18496-25-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1350

Pace Project No.: 20234691

Sample: BC03981 MW-18VR **Lab ID: 20234691046** Collected: 02/22/22 15:15 Received: 02/24/22 10:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.10 | mg/L | 0.020 | 0.012 | 1 | | 03/01/22 16:24 | 18496-25-8 | |

Sample: BC03982 MW-45V **Lab ID: 20234691047** Collected: 02/23/22 11:29 Received: 02/24/22 10:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|------|----|----------|----------------|------------|------|
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 2.0 | mg/L | 0.20 | 0.12 | 10 | | 03/02/22 16:39 | 18496-25-8 | |

Sample: BC03983 MW-03V **Lab ID: 20234691048** Collected: 02/23/22 12:49 Received: 02/24/22 10:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.094 | mg/L | 0.020 | 0.012 | 1 | | 03/02/22 16:58 | 18496-25-8 | |

Sample: BC03984 MW-9V **Lab ID: 20234691049** Collected: 02/21/22 12:08 Received: 02/24/22 10:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 1.2 | mg/L | 0.10 | 0.059 | 5 | | 02/25/22 15:24 | 18496-25-8 | |

Sample: BC03985 MW-38H **Lab ID: 20234691050** Collected: 02/22/22 09:35 Received: 02/24/22 10:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.17 | mg/L | 0.020 | 0.012 | 1 | | 03/01/22 16:24 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC03986 MW-19 Lab ID: 20234691051 Collected: 02/22/22 11:18 Received: 02/24/22 10:30 Matrix: Water | | | | | | | | | |
|--|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.057 | mg/L | 0.020 | 0.012 | 1 | | 03/01/22 16:42 | 18496-25-8 | |
| Sample: BC03987 MW-19 DUP Lab ID: 20234691052 Collected: 02/22/22 11:18 Received: 02/24/22 10:30 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.057 | mg/L | 0.020 | 0.012 | 1 | | 03/01/22 16:42 | 18496-25-8 | |
| Sample: BC03988 MW-2 Lab ID: 20234691053 Collected: 02/22/22 13:17 Received: 02/24/22 10:30 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.61 | mg/L | 0.10 | 0.059 | 5 | | 03/01/22 16:45 | 18496-25-8 | |
| Sample: BC03989 MW-12V Lab ID: 20234691054 Collected: 02/23/22 12:33 Received: 02/24/22 10:30 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 03/02/22 16:59 | 18496-25-8 | |
| Sample: BC03990 FB-5 Lab ID: 20234691055 Collected: 02/23/22 13:30 Received: 02/24/22 10:30 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 03/02/22 16:59 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC03991 MW-31V | | | | | | | | | |
|--|--------------|----------------------------|---------------------------|--------------------------|---------------|----------|----------------|------------|------|
| | | Lab ID: 20234691056 | Collected: 02/22/22 13:07 | Received: 02/24/22 10:30 | Matrix: Water | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.089 | mg/L | 0.020 | 0.012 | 1 | | 03/01/22 16:43 | 18496-25-8 | |
| Sample: BC03992 MW-46 | | | | | | | | | |
| | | Lab ID: 20234691057 | Collected: 02/23/22 10:30 | Received: 02/24/22 10:30 | Matrix: Water | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 6.8 | mg/L | 1.0 | 0.59 | 50 | | 03/02/22 17:23 | 18496-25-8 | |
| Sample: BC03993 FB-4 | | | | | | | | | |
| | | Lab ID: 20234691058 | Collected: 02/23/22 11:00 | Received: 02/24/22 10:30 | Matrix: Water | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 03/02/22 17:01 | 18496-25-8 | |
| Sample: BC03994 MW-23V | | | | | | | | | |
| | | Lab ID: 20234691059 | Collected: 02/23/22 13:33 | Received: 02/24/22 10:30 | Matrix: Water | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.20 | mg/L | 0.020 | 0.012 | 1 | | 03/02/22 17:02 | 18496-25-8 | |
| Sample: BC04387 MW-37HR | | | | | | | | | |
| | | Lab ID: 20234691060 | Collected: 02/28/22 12:20 | Received: 03/02/22 08:45 | Matrix: Water | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.42 | mg/L | 0.020 | 0.012 | 1 | | 03/04/22 13:02 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC04388 MW-47 Lab ID: 20234691061 Collected: 02/28/22 14:12 Received: 03/02/22 08:45 Matrix: Water | | | | | | | | | |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 03/04/22 13:03 | 18496-25-8 | |
| Sample: BC04389 MW-14R Lab ID: 20234691062 Collected: 02/28/22 15:33 Received: 03/02/22 08:45 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 1.2 | mg/L | 0.20 | 0.12 | 10 | | 03/04/22 13:04 | 18496-25-8 | |
| Sample: BC04390 MW-13R Lab ID: 20234691063 Collected: 03/01/22 08:34 Received: 03/02/22 08:45 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.16 | mg/L | 0.020 | 0.012 | 1 | | 03/04/22 13:07 | 18496-25-8 | |
| Sample: BC04391 MW-10R Lab ID: 20234691064 Collected: 03/01/22 12:07 Received: 03/02/22 08:45 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.38 | mg/L | 0.020 | 0.012 | 1 | | 03/04/22 13:55 | 18496-25-8 | |
| Sample: BC04392 MW-12 Lab ID: 20234691065 Collected: 02/28/22 14:40 Received: 03/02/22 08:45 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 03/04/22 13:05 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1350
Pace Project No.: 20234691

| Sample: BC04393 MW-09R Lab ID: 20234691066 Collected: 03/01/22 12:04 Received: 03/02/22 08:45 Matrix: Water | | | | | | | | | |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.20 | mg/L | 0.020 | 0.012 | 1 | | 03/04/22 13:56 | 18496-25-8 | |
| Sample: BC04394 EB-1 Lab ID: 20234691067 Collected: 03/01/22 12:30 Received: 03/02/22 08:45 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 03/04/22 13:56 | 18496-25-8 | |
| Sample: BC04395 MW-01R Lab ID: 20234691068 Collected: 03/01/22 08:54 Received: 03/02/22 08:45 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.029 | mg/L | 0.020 | 0.012 | 1 | | 03/04/22 13:57 | 18496-25-8 | |
| Sample: BC04396 MW-11R Lab ID: 20234691069 Collected: 03/01/22 11:20 Received: 03/02/22 08:45 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 03/04/22 13:58 | 18496-25-8 | |
| Sample: BC04397 MW-05R Lab ID: 20234691070 Collected: 03/01/22 13:34 Received: 03/02/22 08:45 Matrix: Water | | | | | | | | | |
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.93 | mg/L | 0.20 | 0.12 | 10 | | 03/04/22 13:59 | 18496-25-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGORAP_1350
Pace Project No.: 20234691

| | |
|-------------------------------------|--|
| QC Batch: 248002 | Analysis Method: SM 4500-S-2 D |
| QC Batch Method: SM 4500-S-2 D | Analysis Description: 4500S2D Sulfide, Total |
| Associated Lab Samples: 20234691009 | Laboratory: Pace Analytical Services - New Orleans |

METHOD BLANK: 1177800 Matrix: Water
Associated Lab Samples: 20234691009

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/17/22 14:44 | |

LABORATORY CONTROL SAMPLE: 1177801

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.18 | 91 | 90-110 | |

MATRIX SPIKE SAMPLE: 1177803

| Parameter | Units | 20235052003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | ND | 0.2 | 0.099 | 50 | 75-125 | M1 |

SAMPLE DUPLICATE: 1177802

| Parameter | Units | 20235052003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | ND | ND | | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: WMWGORAP_1350
Pace Project No.: 20234691

| | | | |
|------------------|---------------|-----------------------|--|
| QC Batch: | 248250 | Analysis Method: | SM 4500-S-2 D |
| QC Batch Method: | SM 4500-S-2 D | Analysis Description: | 4500S2D Sulfide, Total |
| | | Laboratory: | Pace Analytical Services - New Orleans |

Associated Lab Samples: 20234691010, 20234691011, 20234691012, 20234691013, 20234691014, 20234691015, 20234691016, 20234691017, 20234691018, 20234691019, 20234691020, 20234691021, 20234691022

METHOD BLANK: 1178954 Matrix: Water
Associated Lab Samples: 20234691010, 20234691011, 20234691012, 20234691013, 20234691014, 20234691015, 20234691016, 20234691017, 20234691018, 20234691019, 20234691020, 20234691021, 20234691022

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/21/22 14:23 | |

LABORATORY CONTROL SAMPLE: 1178955

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.20 | 100 | 90-110 | |

MATRIX SPIKE SAMPLE: 1178984

| Parameter | Units | 20234691018 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | ND | 0.2 | 0.15 | 69 | 75-125 | M1 |

SAMPLE DUPLICATE: 1178983

| Parameter | Units | 20234691018 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | ND | ND | | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGORAP_1350
Pace Project No.: 20234691

QC Batch: 248358 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20234691023, 20234691024, 20234691025, 20234691026, 20234691030, 20234691031, 20234691032, 20234691033, 20234691034

METHOD BLANK: 1179377 Matrix: Water
Associated Lab Samples: 20234691023, 20234691024, 20234691025, 20234691026, 20234691030, 20234691031, 20234691032, 20234691033, 20234691034

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/22/22 14:48 | |

METHOD BLANK: 1179378 Matrix: Water
Associated Lab Samples: 20234691023, 20234691024, 20234691025, 20234691026, 20234691030, 20234691031, 20234691032, 20234691033, 20234691034

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/22/22 14:49 | |

METHOD BLANK: 1179379 Matrix: Water
Associated Lab Samples: 20234691023, 20234691024, 20234691025, 20234691026, 20234691030, 20234691031, 20234691032, 20234691033, 20234691034

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/22/22 14:49 | |

LABORATORY CONTROL SAMPLE: 1179380

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.20 | 100 | 90-110 | |

MATRIX SPIKE SAMPLE: 1179384

| Parameter | Units | 20235249002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | ND | 0.2 | 0.12 | 58 | 75-125 | M1 |

SAMPLE DUPLICATE: 1179383

| Parameter | Units | 20235249002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | ND | ND | | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGORAP_1350
Pace Project No.: 20234691

QC Batch: 248528 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20234691027, 20234691028, 20234691029, 20234691035, 20234691036, 20234691037, 20234691038

METHOD BLANK: 1180244 Matrix: Water
Associated Lab Samples: 20234691027, 20234691028, 20234691029, 20234691035, 20234691036, 20234691037, 20234691038

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/23/22 14:10 | |

METHOD BLANK: 1180248 Matrix: Water
Associated Lab Samples: 20234691027, 20234691028, 20234691029, 20234691035, 20234691036, 20234691037, 20234691038

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/23/22 14:09 | |

LABORATORY CONTROL SAMPLE: 1180245

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.19 | 97 | 90-110 | |

MATRIX SPIKE SAMPLE: 1180247

| Parameter | Units | 20235501001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | 0.012J | 0.2 | 0.17 | 80 | 75-125 | |

SAMPLE DUPLICATE: 1180246

| Parameter | Units | 20235501001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | 0.012J | ND | | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGORAP_1350

Pace Project No.: 20234691

QC Batch: 248738

Analysis Method: SM 4500-S-2 D

QC Batch Method: SM 4500-S-2 D

Analysis Description: 4500S2D Sulfide, Total

Laboratory: Pace Analytical Services - New Orleans

Associated Lab Samples: 20234691039, 20234691040, 20234691049

METHOD BLANK: 1181352

Matrix: Water

Associated Lab Samples: 20234691039, 20234691040, 20234691049

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/25/22 15:02 | |

LABORATORY CONTROL SAMPLE: 1181353

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.19 | 96 | 90-110 | |

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QUALITY CONTROL DATA

Project: WMWGORAP_1350
Pace Project No.: 20234691

| | | | |
|------------------|---------------|-----------------------|--|
| QC Batch: | 248911 | Analysis Method: | SM 4500-S-2 D |
| QC Batch Method: | SM 4500-S-2 D | Analysis Description: | 4500S2D Sulfide, Total |
| | | Laboratory: | Pace Analytical Services - New Orleans |

Associated Lab Samples: 20234691041, 20234691042, 20234691043, 20234691044, 20234691045, 20234691046, 20234691050, 20234691051, 20234691052, 20234691053, 20234691056

METHOD BLANK: 1182297 Matrix: Water
Associated Lab Samples: 20234691041, 20234691042, 20234691043, 20234691044, 20234691045, 20234691046, 20234691050, 20234691051, 20234691052, 20234691053, 20234691056

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 03/01/22 16:11 | |

LABORATORY CONTROL SAMPLE: 1182298

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.19 | 93 | 90-110 | |

MATRIX SPIKE SAMPLE: 1182349

| Parameter | Units | 20234691043 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | ND | 0.2 | 0.20 | 101 | 75-125 | |

SAMPLE DUPLICATE: 1182348

| Parameter | Units | 20234691043 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | ND | ND | | 20 | |

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QUALITY CONTROL DATA

Project: WMWGORAP_1350
Pace Project No.: 20234691

| | |
|--------------------------------|--|
| QC Batch: 248977 | Analysis Method: SM 4500-S-2 D |
| QC Batch Method: SM 4500-S-2 D | Analysis Description: 4500S2D Sulfide, Total |
| | Laboratory: Pace Analytical Services - New Orleans |

Associated Lab Samples: 20234691047, 20234691048, 20234691054, 20234691055, 20234691057, 20234691058, 20234691059

METHOD BLANK: 1182544 Matrix: Water
Associated Lab Samples: 20234691047, 20234691048, 20234691054, 20234691055, 20234691057, 20234691058, 20234691059

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 03/02/22 17:16 | |

LABORATORY CONTROL SAMPLE: 1182545

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.18 | 91 | 90-110 | |

MATRIX SPIKE SAMPLE: 1182553

| Parameter | Units | 20236121001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | ND | 0.2 | 0.040 | 20 | 75-125 | M1 |

SAMPLE DUPLICATE: 1182552

| Parameter | Units | 20236121001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | ND | ND | | 20 | |

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QUALITY CONTROL DATA

Project: WMWGORAP_1350
Pace Project No.: 20234691

| | | | |
|------------------|---------------|-----------------------|--|
| QC Batch: | 249264 | Analysis Method: | SM 4500-S-2 D |
| QC Batch Method: | SM 4500-S-2 D | Analysis Description: | 4500S2D Sulfide, Total |
| | | Laboratory: | Pace Analytical Services - New Orleans |

Associated Lab Samples: 20234691060, 20234691061, 20234691062, 20234691063, 20234691064, 20234691065, 20234691066, 20234691067, 20234691068, 20234691069, 20234691070

METHOD BLANK: 1184002 Matrix: Water
Associated Lab Samples: 20234691060, 20234691061, 20234691062, 20234691063, 20234691064, 20234691065, 20234691066, 20234691067, 20234691068, 20234691069, 20234691070

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 03/04/22 12:25 | |

LABORATORY CONTROL SAMPLE: 1184003

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.19 | 96 | 90-110 | |

MATRIX SPIKE SAMPLE: 1184005

| Parameter | Units | 20236115001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | <0.020 | 0.2 | ND | 4 | 75-125 | M1 |

SAMPLE DUPLICATE: 1184004

| Parameter | Units | 20236115001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | <0.020 | ND | | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGORAP_1350

Pace Project No.: 20234691

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

BATCH QUALIFIERS

Batch: 248738

[1] The sample originally chosen for QC for the batch was later canceled; acceptable method performance was demonstrated by the LCS recovery.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1350

Pace Project No.: 20234691

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|------------------|
| 20234691001 | BC02839 MW-7 | SM 4500-S-2 D | 247536 | | |
| 20234691002 | BC02840 MW-7 DIS | SM 4500-S-2 D | 247536 | | |
| 20234691003 | BC02841 MW-41 HS | SM 4500-S-2 D | 247536 | | |
| 20234691004 | BC02842 MW-6V | SM 4500-S-2 D | 247536 | | |
| 20234691005 | BC02843 MW-30 HA | SM 4500-S-2 D | 247536 | | |
| 20234691006 | BC02844 MW-21 | SM 4500-S-2 D | 247536 | | |
| 20234691007 | BC02845 MW-21V | SM 4500-S-2 D | 247536 | | |
| 20234691008 | BC02846 MW-31H | SM 4500-S-2 D | 247536 | | |
| 20234691009 | BC03250 PZ-22 | SM 4500-S-2 D | 248002 | | |
| 20234691010 | BC03251 MW-17 | SM 4500-S-2 D | 248250 | | |
| 20234691011 | BC03252 MW-17V | SM 4500-S-2 D | 248250 | | |
| 20234691012 | BC03253 MW-36H | SM 4500-S-2 D | 248250 | | |
| 20234691013 | BC03254 MW-6S | SM 4500-S-2 D | 248250 | | |
| 20234691014 | BC03255 MW-6S DUP | SM 4500-S-2 D | 248250 | | |
| 20234691015 | BC03256 MW-6D | SM 4500-S-2 D | 248250 | | |
| 20234691016 | BC03257 MW-23H | SM 4500-S-2 D | 248250 | | |
| 20234691017 | BC03258 MW-23H DUP | SM 4500-S-2 D | 248250 | | |
| 20234691018 | BC03259 MW-28H | SM 4500-S-2 D | 248250 | | |
| 20234691019 | BC03260 MW-28H DUP | SM 4500-S-2 D | 248250 | | |
| 20234691020 | BC03261 MW-29H | SM 4500-S-2 D | 248250 | | |
| 20234691021 | BC03262 FB-3 | SM 4500-S-2 D | 248250 | | |
| 20234691022 | BC03263 MW-32H | SM 4500-S-2 D | 248250 | | |
| 20234691023 | BC03539 PZ-16 | SM 4500-S-2 D | 248358 | | |
| 20234691024 | BC03540 MW-16D | SM 4500-S-2 D | 248358 | | |
| 20234691025 | BC03541 MW-16S | SM 4500-S-2 D | 248358 | | |
| 20234691026 | BC03542 FB-2 | SM 4500-S-2 D | 248358 | | |
| 20234691027 | BC03543 MW-15 | SM 4500-S-2 D | 248528 | | |
| 20234691028 | BC03544 MW-15V | SM 4500-S-2 D | 248528 | | |
| 20234691029 | BC03545 MW-25HA | SM 4500-S-2 D | 248528 | | |
| 20234691030 | BC03546 MW-41HD | SM 4500-S-2 D | 248358 | | |
| 20234691031 | BC03547 MW-24H | SM 4500-S-2 D | 248358 | | |
| 20234691032 | BC03548 MW-24H DUP | SM 4500-S-2 D | 248358 | | |
| 20234691033 | BC03549 MW-40H | SM 4500-S-2 D | 248358 | | |
| 20234691034 | BC03550 MW-26H | SM 4500-S-2 D | 248358 | | |
| 20234691035 | BC03551 MW-42H | SM 4500-S-2 D | 248528 | | |
| 20234691036 | BC03552 MW-8 | SM 4500-S-2 D | 248528 | | |
| 20234691037 | BC03553 MW-3 | SM 4500-S-2 D | 248528 | | |
| 20234691038 | BC03554 FB-1 | SM 4500-S-2 D | 248528 | | |
| 20234691039 | BC03974 MW-43H | SM 4500-S-2 D | 248738 | | |
| 20234691040 | BC03975 PZ-18R | SM 4500-S-2 D | 248738 | | |
| 20234691041 | BC03976 MW-36V | SM 4500-S-2 D | 248911 | | |
| 20234691042 | BC03977 MW-27HR | SM 4500-S-2 D | 248911 | | |
| 20234691043 | BC03978 FB-6 | SM 4500-S-2 D | 248911 | | |
| 20234691044 | BC03979 MW-18R | SM 4500-S-2 D | 248911 | | |
| 20234691045 | BC03980 MW-18R DUP | SM 4500-S-2 D | 248911 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1350

Pace Project No.: 20234691

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|-----------------|----------|-------------------|------------------|
| 20234691046 | BC03981 MW-18VR | SM 4500-S-2 D | 248911 | | |
| 20234691047 | BC03982 MW-45V | SM 4500-S-2 D | 248977 | | |
| 20234691048 | BC03983 MW-03V | SM 4500-S-2 D | 248977 | | |
| 20234691049 | BC03984 MW-9V | SM 4500-S-2 D | 248738 | | |
| 20234691050 | BC03985 MW-38H | SM 4500-S-2 D | 248911 | | |
| 20234691051 | BC03986 MW-19 | SM 4500-S-2 D | 248911 | | |
| 20234691052 | BC03987 MW-19 DUP | SM 4500-S-2 D | 248911 | | |
| 20234691053 | BC03988 MW-2 | SM 4500-S-2 D | 248911 | | |
| 20234691054 | BC03989 MW-12V | SM 4500-S-2 D | 248977 | | |
| 20234691055 | BC03990 FB-5 | SM 4500-S-2 D | 248977 | | |
| 20234691056 | BC03991 MW-31V | SM 4500-S-2 D | 248911 | | |
| 20234691057 | BC03992 MW-46 | SM 4500-S-2 D | 248977 | | |
| 20234691058 | BC03993 FB-4 | SM 4500-S-2 D | 248977 | | |
| 20234691059 | BC03994 MW-23V | SM 4500-S-2 D | 248977 | | |
| 20234691060 | BC04387 MW-37HR | SM 4500-S-2 D | 249264 | | |
| 20234691061 | BC04388 MW-47 | SM 4500-S-2 D | 249264 | | |
| 20234691062 | BC04389 MW-14R | SM 4500-S-2 D | 249264 | | |
| 20234691063 | BC04390 MW-13R | SM 4500-S-2 D | 249264 | | |
| 20234691064 | BC04391 MW-10R | SM 4500-S-2 D | 249264 | | |
| 20234691065 | BC04392 MW-12 | SM 4500-S-2 D | 249264 | | |
| 20234691066 | BC04393 MW-09R | SM 4500-S-2 D | 249264 | | |
| 20234691067 | BC04394 EB-1 | SM 4500-S-2 D | 249264 | | |
| 20234691068 | BC04395 MW-01R | SM 4500-S-2 D | 249264 | | |
| 20234691069 | BC04396 MW-11R | SM 4500-S-2 D | 249264 | | |
| 20234691070 | BC04397 MW-05R | SM 4500-S-2 D | 249264 | | |

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W0#: 20234691

PM: KHB Due Date: 02/22/22
 CLIENT: 20-41 abama

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be con

Section A Required Client Information: Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: lbmickitf@southernco.com Phone: 205-664-6197 Fax: 205-664-6197 Requested Due Date: Normal

Section B Required Project Information: Report To: Laura Mickitt Copy To: Brooke Caton & Renee Jernigan Purchase Order #: APC10755638 Project Name: Plant Gorgas Ash Pond Project Number: WMMWGORAP-1350

Section C Invoice Information: Attention: Laura Mickitt Address: 744 Highway 87 GSC Bldg #8 Pace Quote: CGR Karen Brown Pace Project Manager: Karen Brown Pace Profile #: 17210

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique | Description | Station Name Location, Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filled | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | START | | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | Regulatory Agency | State/Location |
|--------|---|-------------|--------------------------------|--------------------------|------------------|-------------------------------------|--------------|-------------|-----------------------------|-----------|-------|-----------------|---------------|----------------|------|---------------|-----|-------------------|----------------|
| | | | | | | | | | | DATE | TIME | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | |
| 1 | BC03250 | PZ-22 | APCO-GS-AP-PZ-22 | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 10:21 | 1 | X | | | | | | |
| 2 | BC03251 | MW-17 | APCO-GS-AP-MW-17 | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 11:42 | 1 | X | | | | | | |
| 3 | BC03252 | MW-17V | APCO-GS-AP-MW-17V | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 12:54 | 1 | X | | | | | | |
| 4 | BC03253 | MW-36H | APCO-GS-AP-MW-36H | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 15:28 | 1 | X | | | | | | |
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ADDITIONAL COMMENTS: RELINQUISHED BY / AFFILIATION: Laura Mickitt APC GTL DATE: 2/15/2022 TIME: 13:40 ACCEPTED BY / AFFILIATION: FedEx Date: 2/16/22 TIME: 9:40

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: SIGNATURE of SAMPLER: DALLAS GENTRY DATE Signed: TEMP in C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: **Alabama Power Company**
 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: **lmidkiff@southernco.com**
 Phone: **205-664-6197** Fax
 Requested Due Date: **Normal**

Section B Required Project Information: **Report To: Laura Midkiff**
 Copy To: **Brooke Caton & Renee Jernigan**
 Purchase Order #: **APC10755638**
 Project Name: **Plant Gorgas Ash Pond**
 Project Number: **MMWGORAP_1350**

Section C Invoice Information: **Attention: Laura Midkiff**
 Company Name: **Alabama Power Co.**
 Address: **744 Highway 87 GSC Bldg #8**
 Page Quote: **CCR**
 Page Project Manager: **Karen Brown**
 Page Profile #: **17210**

Requested Analysis: **Filtered (Y/N)**
 Regulatory Agency: **AL**
 State/Location: **AL**

| ITEM # | SAMPLE ID One Character per box (A-Z, 0-9 /, -) Sample IDs must be unique | Description | Station Name Location Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | START | | # OF CONTAINERS | Unpreserved | NaOH+ZnAcetate | HNO3 | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | |
|--------|--|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------|-------------|----------------|------|---------------|----------|----------|------------------|---------------|-------------------------|--|
| | | | | | | | | | | DATE | TIME | | | | | | | | | | | |
| 1 | BC03234 | WW-6S | APCO-GS-AP-MW-6S | APCO_Gorgas_AshPond | | | | GM | G | 2/14/2022 | 11:18 | 1 | X | | | | | | | | | |
| 2 | BC03235 | WW-6S DUP | APCO-GS-AP-MW-6S | APCO_Gorgas_AshPond | X | | | GM | G | 2/14/2022 | 11:18 | 1 | X | | | | | | | | | |
| 3 | BC03236 | WW-6D | APCO-GS-AP-MW-6D | APCO_Gorgas_AshPond | | | | GM | G | 2/14/2022 | 12:34 | 1 | X | | | | | | | | | |
| 4 | BC03237 | WW-23H | APCO-GS-AP-MW-23H | APCO_Gorgas_AshPond | | | | GM | G | 2/14/2022 | 13:47 | 1 | X | | | | | | | | | |
| 5 | BC03238 | WW-23H DUP | APCO-GS-AP-MW-23H | APCO_Gorgas_AshPond | X | | | GM | G | 2/14/2022 | 13:47 | 1 | X | | | | | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|-----------|-------|---------------------------|-----------|------|--|
| | Laura Midkiff / APC GTL | 2/15/2022 | 13:40 | <i>Karen Brown</i> | 2/15/2022 | 1:08 | Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N) |

SAMPLER NAME AND SIGNATURE: **FedEx**
 PRINT Name of SAMPLER: **FedEx**
 SIGNATURE of SAMPLER: *[Signature]*
 T.J. DAUGHERTY
 DATE Signed: **2/15/2022**

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Alabama Power Company
 Section B Required Project Information: Report To: Laura Mickitt
 Section C Invoice Information: Laura Mickitt

| | | |
|--|---|-------------------------------------|
| Company: Alabama Power Company | Report To: Laura Mickitt | Attention: Laura Mickitt |
| Address: 744 Highway 87 GSC Bldg #8 Calera AL 35040 | Copy To: Brooke Calton & Renee Jerrigan | Company Name: Alabama Power Co. |
| Email To: lbmickitt@southpower.com | Purchase Order #: APC010756638 | Address: 744 Highway 87 GSC Bldg #8 |
| Phone: 205-664-6197 Fax: | Project Name: Plant Gorgas Ash Pond | Page Queue: CCR |
| Requested Due Date: Normal | Project Number: MWG/GORAP-1350 | Page Project Manager: Karen Brown |
| | | Page Profile #: 17210 |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique | Description | Station Name Location Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Preservatives | | | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) |
|--------|---|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------|---------------|----------------|------|---------------|----------|----------|------------------|---------------|-------------------------|
| | | | | | | | | | | DATE | TIME | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | |
| 1 | BCC3269 | MW-28H | APCO-GS-AP-MW-28H | APCO Gorgas AshPond | | | | GW | G | 2/14/2022 | 12:42 | 1 | X | | | | | | | | |
| 2 | BCC3260 | MW-28H DUP | APCO-GS-AP-MW-28H | APCO Gorgas AshPond | X | | | GW | G | 2/14/2022 | 12:42 | 1 | X | | | | | | | | |
| 3 | BCC3261 | MW-29H | APCO-GS-AP-MW-29H | APCO Gorgas AshPond | | | | GW | G | 2/14/2022 | 14:30 | 1 | X | | | | | | | | |
| 4 | BCC3262 | FB-3 | APCO-GS-AP-FB-03 | APCO Gorgas AshPond | | | | GW | G | 2/14/2022 | 15:10 | 1 | X | | | | | | | | |
| 5 | BCC3263 | MW-32H | APCO-GS-AP-MW-32H | APCO Gorgas AshPond | | | | GW | G | 2/14/2022 | 15:45 | 1 | X | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
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|--|-------------------|---------------|---|-----------------|--------------|
| RELINQUISHED BY / AFFILIATION Laura Mickitt/ APC GTL | DATE 2/15/2022 | TIME 13:40 | ACCEPTED BY / AFFILIATION <i>FedEx</i> | DATE 2/16/22 | TIME 9:40 |
| SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Anthony Goggins | | | | | |
| SIGNATURE OF SAMPLER: <i>Anthony Goggins</i> | | | | | |
| DATE Signed: _____ | | | | | |

MO#: 20234691

PM: KHB Due Date: 02/24/22
 CLIENT: 20-Alabama

Page: 6 Of

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be c

| | | |
|---|---|---|
| Section A | Section B | Section C |
| Required Client Information: Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: lbmickit@southtenco.com Phone: 205-664-6197 Fax Requested Due Date: Normal | Required Project Information: Report To: Laura Mickitt Copy To: Brooke Catton & Renee Jernigan Purchase Order #: APC10755638 Project Name: Plant Gorgas Ash Pond Project Number: WANN/GORAP_1350 | Invoice Information: Attention: Laura Mickitt Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 Pace Quote: CCR Pace Project Manager: Karen Brown Pace Profile #: 17210 |
| | | Regulatory Agency: AL State/Location: AL |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique | Description | Station Name Location Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Preservatives | | | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) |
|--------|--|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------|---------------|----------------|------|---------------|----------|----------|------------------|---------------|-------------------------|
| | | | | | | | | | | DATE | TIME | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | |
| 1 | BC03639 | PZ-16 | APCO-GS-AP-PZ-16 | APCO Gorgas AshPond | | | | | | 2/15/2022 | 11:08 | 1 | | | | | | | | | |
| 2 | BC03640 | MM-16D | APCO-GS-AP-MM-16D | APCO Gorgas AshPond | | | | | | 2/15/2022 | 12:48 | 1 | X | | | | | | | | |
| 3 | BC03641 | MM-16S | APCO-GS-AP-MM-16S | APCO Gorgas AshPond | X | | | | | 2/15/2022 | 13:52 | 1 | X | | | | | | | | |
| 4 | BC03642 | FB-2 | APCO-GS-AP-FB-02 | APCO Gorgas AshPond | | | | | | 2/15/2022 | 14:45 | 1 | X | | | | | | | | |
| 5 | BC03643 | MM-15 | APCO-GS-AP-MM-15 | APCO Gorgas AshPond | | | | | | 2/16/2022 | 10:39 | 1 | X | | | | | | | | |
| 6 | BC03644 | MM-15V | APCO-GS-AP-MM-15V | APCO Gorgas AshPond | | | | | | 2/16/2022 | 11:45 | 1 | X | | | | | | | | |
| 7 | BC03645 | MM-29HA | APCO-GS-AP-MM-29HA | APCO Gorgas AshPond | | | | | | 2/16/2022 | 13:22 | 1 | X | | | | | | | | |
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Note: Chart consulted
 Sample ID 3/2/22
 LKR

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| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
| Laura Mickitt/ APC GTL | 2/15/2022 | 10:55 | GH | 2/15/22 | 10:00 | Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N) |
| | | | APC | 2/15/22 | 10:00 | |

| | |
|---|--------------|
| SAMPLER NAME AND SIGNATURE | DATE Signed: |
| PRINT Name of SAMPLER: Dallas Gentry | |
| SIGNATURE of SAMPLER: | |

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Alabama Power Company
 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: ljmickiff@southernco.com
 Phone: 205-664-6197 Fax: Normal
 Requested Due Date: Normal

Section B Required Project Information: Report To: Laura Mickiff
 Copy To: Brooke Catton & Renee Jernigan
 Purchase Order #: APC10755638
 Project Name: Plant Gorgas Ash Pond
 Project Number: MANNGORAP-1350

Section C Invoice Information: Attention: Laura Mickiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Karen Brown
 Pace Profile #: 17210

| ITEM # | SAMPLE ID One Character per box (A-Z, 0-9 / , -) Sample Ids must be unique | Description | Station Name Location, Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Requester Analyte Filtered (Y/N) | Preservatives | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | |
|--------|---|-------------|--------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|----------------------------------|---------------|---------------|----------|----------|------------------|---------------|-------------------------|--|
| | | | | | | | | | | DATE | TIME | | | | | | | | | |
| 1 | BC03646 | MW-41HD | APCO-GS-AP-MW-41HD | APCO Gorgas AshPond | | | | GW | G | 2/19/2022 | 9:25 | | | | | | | | | |
| 2 | BC03647 | MW-24H | APCO-GS-AP-MW-24H | APCO Gorgas AshPond | | | | GW | G | 2/19/2022 | 10:37 | | | | | | | | | |
| 3 | BC03648 | MW-24H DUP | APCO-GS-AP-MW-24H | APCO Gorgas AshPond | X | | | GW | G | 2/19/2022 | 10:37 | | | | | | | | | |
| 4 | BC03649 | MW-40H | APCO-GS-AP-MW-40H | APCO Gorgas AshPond | | | | GW | G | 2/19/2022 | 12:25 | | | | | | | | | |
| 5 | BC03650 | MW-26H | APCO-GS-AP-MW-26H | APCO Gorgas AshPond | | | | GW | G | 2/19/2022 | 14:13 | | | | | | | | | |
| 6 | BC03651 | MW-42H | APCO-GS-AP-MW-42H | APCO Gorgas AshPond | | | | GW | G | 2/19/2022 | 10:43 | | | | | | | | | |
| 7 | BC03652 | MW-8 | APCO-GS-AP-MW-8 | APCO Gorgas AshPond | | | | GW | G | 2/19/2022 | 12:14 | | | | | | | | | |
| 8 | BC03653 | MW-3 | APCO-GS-AP-MW-3 | APCO Gorgas AshPond | | | | GW | G | 2/19/2022 | 14:57 | | | | | | | | | |
| 9 | BC03654 | FB-2 | APCO-GS-AP-FB-02 | APCO Gorgas AshPond | | | | GW | G | 2/19/2022 | 15:50 | | | | | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY/AFFILIATION | DATE | TIME | ACCEPTED BY/AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-----------------------------|-----------|-------|-------------------------|---------|-------|-------------------|
| | Laura Mickiff APC GTL | 2/16/2022 | 10:55 | GH | 2/18/22 | 10:00 | 1.0 4 4 4 |

SAMPLER NAME AND SIGNATURE: _____
 PRINT NAME OF SAMPLER: T.J DAUGHERTY
 SIGNATURE OF SAMPLER: _____
 DATE SIGNED: _____

MO#: 20234691

Due Date: 03/03/22

PH: KHB CLIENT: 20-Alabama

CHAIN-OF-CUSTODY / Analytical Request Docu
The Chain-Of-Custody is a LEGAL DOCUMENT. All relevant fields must be

Page: 8 Of

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|------------------------------|--|-------------------------------|--------------------------------|-----------------------|----------------------------|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: | Alabama Power Company | Report To: | Laura Midkiff | Attention: | Laura Midkiff |
| Address: | 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: | Brooke Calton & Renee Jernigan | Company Name: | Alabama Power Co. |
| Email To: | lmidkiff@scouthernco.com | Purchase Order #: | APC10755638 | Address: | 744 Highway 87 GSC Bldg #8 |
| Phone: | 205-664-6197 Fax | Project Name: | Plant Gorgas Ash Pond | Page Quote: | CCR |
| Requested Due Date: | Normal | Project Number: | WAWWGORAP 1350 | Page Project Manager: | Karen Brown |
| | | | | Page Profile #: | 17210 |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique | Description | Station Name Location Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Preservatives | | | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) |
|--------|---|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------|---------------|----------------|------|---------------|----------|----------|------------------|---------------|-------------------------|
| | | | | | | | | | | DATE | TIME | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | |
| 1 | BC03974 | MW-43H | APCO-GS-AP-MW-43H | APCO Gorgas AshPond | | | | GW G | G | 2/21/2022 | 11:43 | 1 | | | | | | | | | |
| 2 | BC03975 | PZ-18R | APCO-GS-AP-PZ-18R | APCO Gorgas AshPond | | | | GW G | G | 2/21/2022 | 14:40 | 1 | X | | | | | | | | |
| 3 | BC03976 | MW-38V | APCO-GS-AP-MW-38V | APCO Gorgas AshPond | | | | GW G | G | 2/22/2022 | 10:06 | 1 | X | | | | | | | | |
| 4 | BC03977 | MW-27HR | APCO-GS-AP-MW-27HR | APCO Gorgas AshPond | | | | GW G | G | 2/22/2022 | 12:03 | 1 | X | | | | | | | | |
| 5 | BC03978 | FB-6 | APCO-GS-AP-FB-06 | APCO Gorgas AshPond | | | | GW G | G | 2/22/2022 | 12:40 | 1 | X | | | | | | | | |
| 6 | BC03979 | MW-18R | APCO-GS-AP-MW-18R | APCO Gorgas AshPond | | | | GW G | G | 2/22/2022 | 13:42 | 1 | X | | | | | | | | |
| 7 | BC03980 | MW-18R DUP | APCO-GS-AP-MW-18R | APCO Gorgas AshPond | | | | GW G | G | 2/22/2022 | 13:42 | 1 | X | | | | | | | | |
| 8 | BC03981 | MW-18VR | APCO-GS-AP-MW-18VR | APCO Gorgas AshPond | | | | GW G | G | 2/22/2022 | 15:15 | 1 | X | | | | | | | | |
| 9 | BC03982 | MW-45V | APCO-GS-AP-MW-45V | APCO Gorgas AshPond | | | | GW G | G | 2/23/2022 | 11:29 | 1 | X | | | | | | | | |
| 10 | BC03983 | MW-03V | APCO-GS-AP-MW-03V | APCO Gorgas AshPond | | | | GW G | G | 2/23/2022 | 12:48 | 1 | X | | | | | | | | |
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| RELINQUISHED BY / AFFILIATION | | DATE | TIME | ACCEPTED BY / AFFILIATION | | DATE | TIME | SAMPLE CONDITIONS | |
| Laura Midkiff / APC-GTL | | 2/23/2022 | 17:20 | FedEx Rec | | 2/21/22 | 16:30 | TEMP in C | |
| FedEx | | | | APCO | | | | Received on Ice (Y/N) | Y |
| | | | | APCO | | | | Custody Sealed Cooler (Y/N) | Y |
| | | | | APCO | | | | Samples Intact (Y/N) | Y |

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:

DALLAS GENTRY
DATE Signed:

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmickliff@southernco.com
 Phone: 205-664-6197 Fax:
 Requested Due Date: Normal

Section B
Required Project Information:
 Report To: Laura Mickliff
 Copy To: Brooke Calton & Renee Jernigan
 Purchase Order #: APC10755638
 Project Name: Plant Gorgas Ash Pond
 Project Number: WMMWGORAP_1350

Section C
Invoice Information:
 Attention: Laura Mickliff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Address: CCR
 Pace Quote: Karen Brown
 Pace Project Manager:
 Pace Profile #:
 17210

Page : 9 Of

| ITEM # | SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique</small> | Description | Station Name Location Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Preservatives | | | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | |
|---------------------|---|-------------------------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-------------------|-------|-----------------|-----------------------|-----------------------------|----------------------|---------------|----------|----------|------------------|---------------|-------------------------|-----|
| | | | | | | | | | | DATE | TIME | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | | Y/N |
| 1 | BC03984 | MW-9V | APCO-GS-AP-MW-9V | APCO_Gorgas_AshPond | | | | GW | G | 2/21/2022 | 12:08 | 1 | | | | | | | | | | |
| 2 | BC03985 | MW-38H | APCO-GS-AP-MW-38H | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 9:35 | 1 | X | | | | | | | | | |
| 3 | BC03986 | MW-19 | APCO-GS-AP-MW-19 | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 11:18 | 1 | X | | | | | | | | | |
| 4 | BC03987 | MW-19 DUP | APCO-GS-AP-MW-19 | APCO_Gorgas_AshPond | X | | | GW | G | 2/22/2022 | 11:18 | 1 | X | | | | | | | | | |
| 5 | BC03988 | MW-2 | APCO-GS-AP-MW-2 | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 13:17 | 1 | X | | | | | | | | | |
| 6 | BC03989 | MW-12V | APCO-GS-AP-MW-12V | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 12:33 | 1 | X | | | | | | | | | |
| 7 | BC03990 | FB-5 | APCO-GS-AP-FB-05 | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 13:30 | 1 | X | | | | | | | | | |
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| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |
| ADDITIONAL COMMENTS | | RELINQUISHED BY / AFFILIATION | | DATE | TIME | ACCEPTED BY / AFFILIATION | | DATE | TIME | SAMPLE CONDITIONS | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) | | | | | | | |
| | | Laura Mickliff / APC GTL | | 2/23/2022 | 17:20 | FedEx | | 2/24/22 | 10:30 | FedEx Rec | | 16 | Y | Y | Y | | | | | | | |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: T.J DAUGHERTY
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: [Date]

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information:

| | | | |
|---|--|---|---|
| Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Catera, AL 35040 Email To: lbmickit@southernco.com Phone: 205-664-6197 Fax Requester Due Date: Normal | Report To: Laura Mickitt Copy To: Brooke Caton & Renee Jernigan Purchase Order #: APC10755638 Project Name: Plant Gorgas Ash Pond Project Number: WMMWGGRAP_1350 | Attention: Laura Mickitt Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 Pace Quote: CCR Pace Project Manager: Karen Brown Pace Profile #: 17210 | Regulatory Agency State / Location: AL |
|---|--|---|---|

| ITEM # | SAMPLE ID <small>One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique</small> | Description | Station Name Location Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Preservatives | | | Analyses Test | Regulatory Agency | State / Location |
|--------|--|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------|---------------|----------------|------|---------------|-------------------|------------------|
| | | | | | | | | | | DATE | TIME | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | |
| 1 | BC03991 | MW-31V | APCO-GS-AP-MW-31V | APCO_Gorgas AshPond | | | | GW | G | 2/22/2022 | 13:07 | 1 | X | | | | | |
| 2 | BC03992 | MW-46 | APCO-GS-AP-MW-46 | APCO_Gorgas AshPond | | | | GW | G | 2/23/2022 | 10:30 | 1 | X | | | | | |
| 3 | BC03993 | FB-4 | APCO-GS-AP-FB-04 | APCO_Gorgas AshPond | | | | GW | G | 2/23/2022 | 11:00 | 1 | X | | | | | |
| 4 | BC03994 | MW-23V | APCO-GS-AP-MW-23V | APCO_Gorgas AshPond | | | | GW | G | 2/23/2022 | 13:33 | 1 | X | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |

| | |
|--|---|
| Additional Comments: RELINQUISHED BY: APT/ILLATION Laura Mickitt/ APC GTL FedEx 2/24/22 10:30 FedEx 2/24/22 10:30 | ACCEPTED BY: APT/ILLATION FedEx 2/24/22 10:30 FedEx 2/24/22 10:30 |
|--|---|

| | |
|---|--------------|
| SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: ANTHONY GOGGINS SIGNATURE of SAMPLER: <i>[Signature]</i> | DATE Signed: |
|---|--------------|

| | |
|-----------|-----------------------------|
| TEMP in C | Received on Ice (Y/N) |
| | |
| | Custody Sealed Cooler (Y/N) |
| | |
| | Samples Intact (Y/N) |
| | |

MO#: 20234691

PM: KHB Due Date: 03/10/22

CLIENT: 20-ALabama

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete

Section A Required Client Information: Alabama Power Company, 744 Highway 87 GSC Bldg #8, Calera, AL 35040
Section B Required Project Information: Report To: Laura Mickitt
Section C Invoice Information: Attention: Laura Mickitt, Alabama Power Co., 744 Highway 87 GSC Bldg #8, Calera, AL 35040
Company Name: Alabama Power Co.
Address: 744 Highway 87 GSC Bldg #8
Pace Project Manager: Karen Brown
Pace Profile #: 17210
Request for Analysis: Filtered (Y/N) AL

Company: Alabama Power Company
Address: 744 Highway 87 GSC Bldg #8, Calera, AL 35040
Email To: lmickitt@southernco.com
Phone: 205-664-6197
Requested Due Date: Normal
Purchase Order #: APC10755638
Project Name: Plant Gorgas Ash Pond
Project Number: WMMWGORAP-1350
Company Name: Alabama Power Co.
Address: 744 Highway 87 GSC Bldg #8
Pace Project Manager: Karen Brown
Pace Profile #: 17210
Request for Analysis: Filtered (Y/N) AL

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique | Description | Station Name Location Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Preservatives | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) |
|--------|---|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------|---------------|---------------|----------|----------|------------------|---------------|-------------------------|
| | | | | | | | | | | DATE | TIME | | | | | | | | |
| 1 | BC04387 | MW-37HR | APCO-GS-AP-MW-37HR | APCO_Gorgas_AshPond | | | | GW | G | 2/28/2022 | 12:20 | 1 | X | | | | | | |
| 2 | BC04388 | MW-47 | APCO-GS-AP-MW-47 | APCO_Gorgas_AshPond | | | | GW | G | 2/28/2022 | 14:12 | 1 | X | | | | | | |
| 3 | BC04389 | MW-14R | APCO-GS-AP-MW-14R | APCO_Gorgas_AshPond | | | | GW | G | 2/28/2022 | 15:33 | 1 | X | | | | | | |
| 4 | BC04390 | MW-13R | APCO-GS-AP-MW-13R | APCO_Gorgas_AshPond | | | | GW | G | 3/1/2022 | 8:34 | 1 | X | | | | | | |
| 5 | BC04391 | MW-10R | APCO-GS-AP-MW-10R | APCO_Gorgas_AshPond | | | | GW | G | 3/1/2022 | 12:07 | 1 | X | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | |

ADDITIONAL COMMENTS: Laura Mickitt APC GTL
RELINQUISHED BY / AFFILIATION: Laura Mickitt APC GTL
DATE: 3/1/2022
TIME: 15:45:00 PM
ACCEPTED BY / AFFILIATION: FedEx Pace
DATE: 3/2/22
TIME: 8:45

SAMPLER NAME AND SIGNATURE: DALLAS GENTRY
PRINT Name of SAMPLER: DALLAS GENTRY
SIGNATURE of SAMPLER: [Signature]
DATE Signed: [Date]

TEMP in C
Received on Ice (Y/N)
Custody Sealed Cooler (Y/N)
Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | |
|---|---|
| Section A Required Client Information: Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: lmidkiff@southernco.com Phone: 205-664-6197 Fax Requested Due Date: Normal | Section B Required Project Information: Report To: Laura Midkiff Copy To: Brooke Calton & Renee Jernigan Purchase Order #: APC107558638 Project Name: Plant Gorgas Ash Pond Project Number: WMMWGORAP_1350 |
| Section C Invoice Information: Attention: Laura Midkiff Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 Pace Quote: CCR Pace Project Manager: Karen Brown Pace Profile #: 17210 | Regulatory Agency: AL State / Location: AL |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique | Description | Station Name Location Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Preservatives | | | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) |
|--------|---|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------|---------------|----------------|------|---------------|----------|----------|------------------|---------------|-------------------------|
| | | | | | | | | | | DATE | TIME | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | |
| 1 | BC04392 | MW-12 | APCO-GS-AP-MW-12 | APCO_Gorgas_AshPond | | | | | G | 2/29/2022 | 14:40 | 1 | X | | | | | X | | | |
| 2 | BC04393 | MW-09R | APCO-GS-AP-MW-09R | APCO_Gorgas_AshPond | | | | | G | 3/1/2022 | 12:04 | 1 | X | | | | | X | | | |
| 3 | BC04394 | EB-1 | APCO-GS-AP-EB-1 | APCO_Gorgas_AshPond | | | | | G | 3/1/2022 | 12:05 | 1 | X | | | | | X | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
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| 9 | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |

| | |
|--|--|
| Relinquished by / Affiliation: Laura Midkiff / APC GTL Date: 3/1/2022 Time: 15:45:00 PM Accepted by / Affiliation: FedEx Date: 3/1/2022 Time: 8:45 Signature: <i>[Signature]</i> | Sampler Name and Signature: Print Name of Sampler: Signature of Sampler: T.J. DAUGHERTY Date Signed: |
|--|--|

| | |
|--|--|
| Relinquished by / Affiliation: Laura Midkiff / APC GTL Date: 3/1/2022 Time: 15:45:00 PM Accepted by / Affiliation: FedEx Date: 3/1/2022 Time: 8:45 Signature: <i>[Signature]</i> | Sampler Name and Signature: Print Name of Sampler: Signature of Sampler: T.J. DAUGHERTY Date Signed: |
|--|--|

WO#: 20234691



Sample Condition Upon Receipt

PM: KHB

Due Date: 02/22/22

1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

CLIENT: 20-Alabama

Project #

Courier: Pace Courier Hired Courier Fed X UPS DHL USPS Customer Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: Yes No

Thermometer Used: Therm Fisher IR 7 Therm Fisher IR 10

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2/10/22 AR

Temp must be measured from Temperature blank when present

Comments:

| | | | |
|---|--|----|--|
| Temperature Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 1 | |
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2 | |
| Chain of Custody Complete: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3 | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4 | |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5 | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6 | |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7 | |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8 | |
| Filtered vol. Rec. for Diss. tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 9 | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10 | |
| All containers received within manufacture's precautionary and/or expiration dates. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11 | |
| All containers needing chemical preservation have been checked (except VOA, coliform, & O&G). | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12 | |
| All containers preservation checked found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13 | If No, was preservative added? <input type="checkbox"/> Yes <input type="checkbox"/> No If added record lot no.: HNO3 _____ H2SO4 _____ |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14 | |
| Trip Blank Present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 15 | |

Client Notification/ Resolution:

Person Contacted: Samples 001-008 arrived 02/10/22 Date/Time: _____

Comments/ Resolution: Samples 009-022 arrived 02/16/22

Samples 023-038 arrived 02/18/22

Samples 039-059 arrived 02/24/22

Samples 060-070 arrived 03/02/22

April 20, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGORAP_1350
Pace Project No.: 30470864

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

#PM

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power
Laura Midkiff, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGORAP_1350
Pace Project No.: 30470864

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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SAMPLE SUMMARY

Project: WMWGORAP_1350

Pace Project No.: 30470864

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 30470864001 | BC02839 MW-7 | Water | 02/08/22 11:20 | 03/04/22 09:45 |
| 30470864002 | BC02840 MW-7 Diss | Water | 02/08/22 11:20 | 03/04/22 09:45 |
| 30470864003 | BC02841 MW-41HS | Water | 02/08/22 14:43 | 03/04/22 09:45 |
| 30470864004 | BC02842 MW-6V | Water | 02/09/22 12:00 | 03/04/22 09:45 |
| 30470864005 | BC02843 MW-30HA | Water | 02/08/22 09:36 | 03/04/22 09:45 |
| 30470864006 | BC02844 MW-21 | Water | 02/08/22 11:11 | 03/04/22 09:45 |
| 30470864007 | BC02845 MW-21V | Water | 02/08/22 13:38 | 03/04/22 09:45 |
| 30470864008 | BC02846 MW-31H | Water | 02/08/22 16:04 | 03/04/22 09:45 |
| 30470864009 | BC03250 PZ-22 | Water | 02/14/22 10:21 | 03/04/22 09:45 |
| 30470864010 | BC03251 MW-17 | Water | 02/14/22 11:42 | 03/04/22 09:45 |
| 30470864011 | BC03252 MW-17V | Water | 02/14/22 12:54 | 03/04/22 09:45 |
| 30470864012 | BC03253 MW-36H | Water | 02/14/22 15:28 | 03/04/22 09:45 |
| 30470864013 | BC03254 MW-6S | Water | 02/14/22 11:18 | 03/04/22 09:45 |
| 30470864014 | BC03255 MW-6S DUP | Water | 02/14/22 11:18 | 03/04/22 09:45 |
| 30470864015 | BC03256 MW-6D | Water | 02/14/22 12:34 | 03/04/22 09:45 |
| 30470864016 | BC03257 MW-23H | Water | 02/14/22 13:47 | 03/04/22 09:45 |
| 30470864017 | BC03258 MW-23H DUP | Water | 02/14/22 13:47 | 03/04/22 09:45 |
| 30470864018 | BC03259 MW-28H | Water | 02/14/22 12:42 | 03/04/22 09:45 |
| 30470864019 | BC03260 MW-28H DUP | Water | 02/14/22 12:42 | 03/04/22 09:45 |
| 30470864020 | BC03261 MW-29H | Water | 02/14/22 14:30 | 03/04/22 09:45 |
| 30470864021 | BC03262 FB-3 | Water | 02/14/22 15:10 | 03/04/22 09:45 |
| 30470864022 | BC03263 MW-32H | Water | 02/14/22 15:45 | 03/04/22 09:45 |
| 30470864023 | BC03539 PZ-16 | Water | 02/15/22 11:08 | 03/04/22 09:45 |
| 30470864024 | BC03540 MW-16D | Water | 02/15/22 12:48 | 03/04/22 09:45 |
| 30470864025 | BC03541 MW-16S | Water | 02/15/22 13:52 | 03/04/22 09:45 |
| 30470864026 | BC03542 FB-2 | Water | 02/15/22 14:45 | 03/04/22 09:45 |
| 30470864027 | BC03543 MW-15 | Water | 02/16/22 10:39 | 03/04/22 09:45 |
| 30470864028 | BC03544 MW-15V | Water | 02/16/22 11:45 | 03/04/22 09:45 |
| 30470864029 | BC03545 MW-25HA | Water | 02/16/22 13:22 | 03/04/22 09:45 |
| 30470864030 | BC03546 MW-41HD | Water | 02/15/22 09:25 | 03/04/22 09:45 |
| 30470864031 | BC03547 MW-24H | Water | 02/15/22 10:37 | 03/04/22 09:45 |
| 30470864032 | BC03548 MW-24H DUP | Water | 02/15/22 10:37 | 03/04/22 09:45 |
| 30470864033 | BC03549 MW-40H | Water | 02/15/22 12:25 | 03/04/22 09:45 |
| 30470864034 | BC03550 MW-26H | Water | 02/15/22 14:13 | 03/04/22 09:45 |
| 30470864035 | BC03551 MW-42H | Water | 02/16/22 10:43 | 03/04/22 09:45 |
| 30470864036 | BC03552 MW-8 | Water | 02/16/22 12:14 | 03/04/22 09:45 |
| 30470864037 | BC03553 MW-3 | Water | 02/16/22 14:57 | 03/04/22 09:45 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1350

Pace Project No.: 30470864

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 30470864038 | BC03554 FB-1 | Water | 02/16/22 15:50 | 03/04/22 09:45 |
| 30470864039 | BC03974 MW-43H | Water | 02/21/22 11:43 | 03/04/22 09:45 |
| 30470864040 | BC03975 PZ-18R | Water | 02/21/22 14:40 | 03/04/22 09:45 |
| 30470864041 | BC03976 MW-36V | Water | 02/22/22 10:06 | 03/04/22 09:45 |
| 30470864042 | BC03977 MW-27HR | Water | 02/22/22 12:03 | 03/04/22 09:45 |
| 30470864043 | BC03978 FB-6 | Water | 02/22/22 12:40 | 03/04/22 09:45 |
| 30470864044 | BC03979 MW-18R | Water | 02/22/22 13:42 | 03/04/22 09:45 |
| 30470864045 | BC03980 MW-18R DUP | Water | 02/22/22 13:42 | 03/04/22 09:45 |
| 30470864046 | BC03981 MW-18VR | Water | 02/22/22 15:15 | 03/04/22 09:45 |
| 30470864047 | BC03982 MW-45V | Water | 02/23/22 11:29 | 03/04/22 09:45 |
| 30470864048 | BC03983 MW-03V | Water | 02/23/22 12:49 | 03/04/22 09:45 |
| 30470864049 | BC03984 MW-9V | Water | 02/21/22 12:08 | 03/04/22 09:45 |
| 30470864050 | BC03985 MW-38H | Water | 02/22/22 09:35 | 03/04/22 09:45 |
| 30470864051 | BC03986 MW-19 | Water | 02/22/22 11:18 | 03/04/22 09:45 |
| 30470864052 | BC03987 MW-19 DUP | Water | 02/22/22 11:18 | 03/04/22 09:45 |
| 30470864053 | BC03988 MW-2 | Water | 02/22/22 13:17 | 03/04/22 09:45 |
| 30470864054 | BC03989 MW-12V | Water | 02/23/22 12:33 | 03/04/22 09:45 |
| 30470864055 | BC03990 FB-5 | Water | 02/23/22 13:30 | 03/04/22 09:45 |
| 30470864056 | BC03991 MW-31V | Water | 02/22/22 13:07 | 03/04/22 09:45 |
| 30470864057 | BC03992 MW-46 | Water | 02/23/22 10:30 | 03/04/22 09:45 |
| 30470864058 | BC03993 FB-4 | Water | 02/23/22 11:00 | 03/04/22 09:45 |
| 30470864059 | BC03994 MW-23V | Water | 02/23/22 13:33 | 03/04/22 09:45 |
| 30470864060 | BC04387 MW-37HR | Water | 02/28/22 12:20 | 03/04/22 09:45 |
| 30470864061 | BC04388 MW-47 | Water | 02/28/22 14:12 | 03/04/22 09:45 |
| 30470864062 | BC04389 MW-14R | Water | 02/28/22 15:33 | 03/04/22 09:45 |
| 30470864063 | BC04390 MW-13R | Water | 03/01/22 08:34 | 03/04/22 09:45 |
| 30470864064 | BC04391 MW-10R | Water | 03/01/22 12:07 | 03/04/22 09:45 |
| 30470864065 | BC04392 MW-12 | Water | 02/28/22 14:40 | 03/04/22 09:45 |
| 30470864066 | BC04393 MW-09R | Water | 03/01/22 12:04 | 03/04/22 09:45 |
| 30470864067 | BC04394 EB-1 | Water | 03/01/22 12:30 | 03/04/22 09:45 |
| 30470864068 | BC04395 MW-01R | Water | 03/01/22 08:54 | 03/04/22 09:45 |
| 30470864069 | BC04396 MW-11R | Water | 03/01/22 11:20 | 03/04/22 09:45 |
| 30470864070 | BC04397 MW-05R | Water | 03/01/22 13:34 | 03/04/22 09:45 |
| 30470864071 | BC03250 MS | Water | 02/14/22 10:21 | 03/04/22 09:45 |
| 30470864072 | BC03250 MSD | Water | 02/14/22 10:21 | 03/04/22 09:45 |
| 30470864073 | BC03256 MS | Water | 02/14/22 12:34 | 03/04/22 09:45 |
| 30470864074 | BC03256 MSD | Water | 02/14/22 12:34 | 03/04/22 09:45 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1350

Pace Project No.: 30470864

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-------------|--------|----------------|----------------|
| 30470864075 | BC03539 MS | Water | 02/15/22 11:08 | 03/04/22 09:45 |
| 30470864076 | BC03539 MSD | Water | 02/15/22 11:08 | 03/04/22 09:45 |
| 30470864077 | BC03551 MS | Water | 02/16/22 10:43 | 03/04/22 09:45 |
| 30470864078 | BC03551 MSD | Water | 02/16/22 10:43 | 03/04/22 09:45 |

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1350

Pace Project No.: 30470864

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------------|--------------------------|----------|-------------------|------------|
| 30470864001 | BC02839 MW-7 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864002 | BC02840 MW-7 Diss | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864003 | BC02841 MW-41HS | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864004 | BC02842 MW-6V | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864005 | BC02843 MW-30HA | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864006 | BC02844 MW-21 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864007 | BC02845 MW-21V | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864008 | BC02846 MW-31H | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864009 | BC03250 PZ-22 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864010 | BC03251 MW-17 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864011 | BC03252 MW-17V | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864012 | BC03253 MW-36H | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864013 | BC03254 MW-6S | EPA 9315 | JC2 | 1 | PASI-PA |

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1350
Pace Project No.: 30470864

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|-------------------|------------|
| 30470864014 | BC03255 MW-6S DUP | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864015 | BC03256 MW-6D | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864016 | BC03257 MW-23H | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864017 | BC03258 MW-23H DUP | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864018 | BC03259 MW-28H | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864019 | BC03260 MW-28H DUP | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864020 | BC03261 MW-29H | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864021 | BC03262 FB-3 | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864022 | BC03263 MW-32H | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864023 | BC03539 PZ-16 | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864024 | BC03540 MW-16D | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864025 | BC03541 MW-16S | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1350

Pace Project No.: 30470864

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|-------------------|------------|
| 30470864026 | BC03542 FB-2 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864027 | BC03543 MW-15 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864028 | BC03544 MW-15V | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864029 | BC03545 MW-25HA | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864030 | BC03546 MW-41HD | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864031 | BC03547 MW-24H | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864032 | BC03548 MW-24H DUP | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864033 | BC03549 MW-40H | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864034 | BC03550 MW-26H | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864035 | BC03551 MW-42H | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864036 | BC03552 MW-8 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864037 | BC03553 MW-3 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1350
Pace Project No.: 30470864

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|-------------------|------------|
| 30470864038 | BC03554 FB-1 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864039 | BC03974 MW-43H | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864040 | BC03975 PZ-18R | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864041 | BC03976 MW-36V | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864042 | BC03977 MW-27HR | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864043 | BC03978 FB-6 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864044 | BC03979 MW-18R | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864045 | BC03980 MW-18R DUP | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864046 | BC03981 MW-18VR | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864047 | BC03982 MW-45V | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864048 | BC03983 MW-03V | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864049 | BC03984 MW-9V | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30470864050 | BC03985 MW-38H | EPA 9315 | JC2 | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1350
Pace Project No.: 30470864

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------------|--------------------------|----------|-------------------|------------|
| 30470864051 | BC03986 MW-19 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864052 | BC03987 MW-19 DUP | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864053 | BC03988 MW-2 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864054 | BC03989 MW-12V | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864055 | BC03990 FB-5 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864056 | BC03991 MW-31V | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864057 | BC03992 MW-46 | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864058 | BC03993 FB-4 | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864059 | BC03994 MW-23V | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864060 | BC04387 MW-37HR | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864061 | BC04388 MW-47 | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864062 | BC04389 MW-14R | EPA 9320 | JSM | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1350
Pace Project No.: 30470864

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|----------------|--------------------------|----------|-------------------|------------|
| 30470864063 | BC04390 MW-13R | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864064 | BC04391 MW-10R | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864065 | BC04392 MW-12 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864066 | BC04393 MW-09R | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864067 | BC04394 EB-1 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864068 | BC04395 MW-01R | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864069 | BC04396 MW-11R | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864070 | BC04397 MW-05R | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864071 | BC03250 MS | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864072 | BC03250 MSD | EPA 9320 | JSM | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864073 | BC03256 MS | EPA 9320 | JSM | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864074 | BC03256 MSD | EPA 9320 | VAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864075 | BC03539 MS | EPA 9320 | VAL | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| 30470864076 | BC03539 MSD | EPA 9320 | JSM | 1 | PASI-PA |
| | | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1350

Pace Project No.: 30470864

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------|----------|----------|-------------------|------------|
| 30470864077 | BC03551 MS | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |
| 30470864078 | BC03551 MSD | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | JSM | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1350

Pace Project No.: 30470864

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: April 20, 2022

General Information:

78 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1350

Pace Project No.: 30470864

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: April 20, 2022

General Information:

78 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1350

Pace Project No.: 30470864

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: April 20, 2022

General Information:

70 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC02839 MW-7 **Lab ID: 30470864001** Collected: 02/08/22 11:20 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.347 ± 0.193 (0.240) C:104% T:NA | pCi/L | 04/07/22 08:51 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.472U ± 0.363 (0.705) C:71% T:89% | pCi/L | 03/31/22 14:30 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.819U ± 0.556 (0.945) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC02840 MW-7 Diss **Lab ID: 30470864002** Collected: 02/08/22 11:20 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0292U ± 0.0738 (0.183) C:106% T:NA | pCi/L | 04/07/22 08:51 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.326U ± 0.360 (0.752) C:77% T:89% | pCi/L | 03/31/22 14:30 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.355U ± 0.434 (0.935) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC02841 MW-41HS **Lab ID: 30470864003** Collected: 02/08/22 14:43 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.267 ± 0.172 (0.229) C:101% T:NA | pCi/L | 04/07/22 08:52 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | -0.0815U ± 0.339 (0.808) C:81% T:80% | pCi/L | 03/31/22 14:30 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.267U ± 0.511 (1.04) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC02842 MW-6V **Lab ID: 30470864004** Collected: 02/09/22 12:00 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.209U ± 0.168 (0.276) C:91% T:NA | pCi/L | 04/07/22 08:52 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | -0.0285U ± 0.315 (0.743) C:77% T:87% | pCi/L | 03/31/22 14:30 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.209U ± 0.483 (1.02) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC02843 MW-30HA **Lab ID: 30470864005** Collected: 02/08/22 09:36 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.709 ± 0.288 (0.295) C:105% T:NA | pCi/L | 04/07/22 08:52 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0969U ± 0.298 (0.673) C:76% T:85% | pCi/L | 03/31/22 14:31 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.806U ± 0.586 (0.968) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC02844 MW-21 **Lab ID: 30470864006** Collected: 02/08/22 11:11 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.278U ± 0.185 (0.282) C:103% T:NA | pCi/L | 04/07/22 08:52 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.251U ± 0.360 (0.773) C:77% T:86% | pCi/L | 03/31/22 14:30 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.529U ± 0.545 (1.06) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC02845 MW-21V **Lab ID: 30470864007** Collected: 02/08/22 13:38 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.161U ± 0.147 (0.256) C:98% T:NA | pCi/L | 04/07/22 08:52 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.306U ± 0.336 (0.698) C:72% T:89% | pCi/L | 03/31/22 14:31 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.467U ± 0.483 (0.954) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC02846 MW-31H **Lab ID: 30470864008** Collected: 02/08/22 16:04 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0779U ± 0.127 (0.280) C:98% T:NA | pCi/L | 04/07/22 08:52 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.111U ± 0.375 (0.849) C:75% T:76% | pCi/L | 03/31/22 14:31 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.189U ± 0.502 (1.13) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03250 PZ-22 **Lab ID: 30470864009** Collected: 02/14/22 10:21 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.262U ± 0.180 (0.265) C:96% T:NA | pCi/L | 04/07/22 08:52 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.408U ± 0.355 (0.713) C:74% T:86% | pCi/L | 03/31/22 14:31 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.670U ± 0.535 (0.978) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03251 MW-17 **Lab ID: 30470864010** Collected: 02/14/22 11:42 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.167U ± 0.152 (0.269) C:97% T:NA | pCi/L | 04/07/22 08:55 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.356U ± 0.342 (0.701) C:74% T:93% | pCi/L | 03/31/22 14:31 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.523U ± 0.494 (0.970) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03252 MW-17V **Lab ID: 30470864011** Collected: 02/14/22 12:54 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 7.72 ± 1.39 (0.320) C:99% T:NA | pCi/L | 04/07/22 08:55 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0398U ± 0.340 (0.791) C:56% T:93% | pCi/L | 03/31/22 14:31 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 7.76 ± 1.73 (1.11) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03253 MW-36H **Lab ID: 30470864012** Collected: 02/14/22 15:28 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 7.37 ± 1.33 (0.285) C:98% T:NA | pCi/L | 04/07/22 08:55 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | -0.0419U ± 0.289 (0.691) C:75% T:86% | pCi/L | 03/31/22 14:31 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 7.37 ± 1.62 (0.976) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03254 MW-6S **Lab ID: 30470864013** Collected: 02/14/22 11:18 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.140U ± 0.157 (0.309) C:95% T:NA | pCi/L | 04/07/22 09:00 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | -0.0466U ± 0.306 (0.728) C:73% T:90% | pCi/L | 03/31/22 14:31 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.140U ± 0.463 (1.04) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03255 MW-6S DUP **Lab ID: 30470864014** Collected: 02/14/22 11:18 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.272U ± 0.186 (0.280) C:97% T:NA | pCi/L | 04/07/22 09:01 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.426U ± 0.365 (0.733) C:78% T:86% | pCi/L | 03/31/22 14:32 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.698U ± 0.551 (1.01) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03256 MW-6D **Lab ID: 30470864015** Collected: 02/14/22 12:34 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.208U ± 0.168 (0.281) C:96% T:NA | pCi/L | 04/07/22 09:04 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 1.03 ± 0.456 (0.726) C:76% T:76% | pCi/L | 04/05/22 14:30 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.24 ± 0.624 (1.01) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03257 MW-23H **Lab ID: 30470864016** Collected: 02/14/22 13:47 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0893U ± 0.120 (0.246) C:103% T:NA | pCi/L | 04/07/22 09:01 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0641U ± 0.298 (0.685) C:71% T:86% | pCi/L | 03/31/22 14:32 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.153U ± 0.418 (0.931) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03258 MW-23H DUP **Lab ID: 30470864017** Collected: 02/14/22 13:47 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.170U ± 0.171 (0.332) C:104% T:NA | pCi/L | 04/07/22 09:01 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | -0.0491U ± 0.322 (0.771) C:73% T:85% | pCi/L | 03/31/22 14:32 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.170U ± 0.493 (1.10) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03259 MW-28H **Lab ID: 30470864018** Collected: 02/14/22 12:42 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.140U ± 0.141 (0.258) C:95% T:NA | pCi/L | 04/07/22 09:04 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.170U ± 0.318 (0.700) C:73% T:90% | pCi/L | 03/31/22 14:32 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.310U ± 0.459 (0.958) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03260 MW-28H DUP **Lab ID: 30470864019** Collected: 02/14/22 12:42 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0608U ± 0.137 (0.324) C:98% T:NA | pCi/L | 04/07/22 09:01 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.265U ± 0.314 (0.656) C:73% T:91% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.326U ± 0.451 (0.980) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03261 MW-29H **Lab ID: 30470864020** Collected: 02/14/22 14:30 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.269U ± 0.215 (0.394) C:97% T:NA | pCi/L | 04/07/22 09:01 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.456U ± 0.433 (0.882) C:73% T:74% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.725U ± 0.648 (1.28) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03262 FB-3 **Lab ID: 30470864021** Collected: 02/14/22 15:10 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.104U ± 0.122 (0.235) C:99% T:NA | pCi/L | 04/07/22 09:04 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.234U ± 0.360 (0.778) C:72% T:80% | pCi/L | 04/04/22 12:17 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.338U ± 0.482 (1.01) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03263 MW-32H **Lab ID: 30470864022** Collected: 02/14/22 15:45 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.145U ± 0.164 (0.330) C:96% T:NA | pCi/L | 04/07/22 09:04 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.226U ± 0.282 (0.594) C:75% T:86% | pCi/L | 04/04/22 12:18 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.371U ± 0.446 (0.924) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03539 PZ-16 **Lab ID: 30470864023** Collected: 02/15/22 11:08 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.457 ± 0.216 (0.229) C:102% T:NA | pCi/L | 04/08/22 09:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.666U ± 0.500 (0.963) C:71% T:56% | pCi/L | 04/04/22 12:18 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.12U ± 0.716 (1.19) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03540 MW-16D **Lab ID: 30470864024** Collected: 02/15/22 12:48 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0632U ± 0.106 (0.233) C:97% T:NA | pCi/L | 04/07/22 09:04 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.494U ± 0.361 (0.700) C:74% T:82% | pCi/L | 04/04/22 12:18 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.557U ± 0.467 (0.933) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03541 MW-16S **Lab ID: 30470864025** Collected: 02/15/22 13:52 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.839 ± 0.304 (0.255) C:98% T:NA | pCi/L | 04/07/22 09:04 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.391U ± 0.318 (0.632) C:77% T:93% | pCi/L | 04/04/22 12:18 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.23 ± 0.622 (0.887) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03542 FB-2 **Lab ID: 30470864026** Collected: 02/15/22 14:45 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.116U ± 0.141 (0.285) C:96% T:NA | pCi/L | 04/07/22 09:04 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.401U ± 0.319 (0.624) C:71% T:86% | pCi/L | 04/04/22 12:18 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.517U ± 0.460 (0.909) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03543 MW-15 **Lab ID: 30470864027** Collected: 02/16/22 10:39 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.180U ± 0.153 (0.258) C:98% T:NA | pCi/L | 04/07/22 09:04 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0539U ± 0.275 (0.631) C:77% T:84% | pCi/L | 04/04/22 12:18 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.234U ± 0.428 (0.889) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03544 MW-15V **Lab ID: 30470864028** Collected: 02/16/22 11:45 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.182U ± 0.167 (0.301) C:100% T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.659 ± 0.364 (0.655) C:72% T:96% | pCi/L | 04/04/22 12:18 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.841U ± 0.531 (0.956) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03545 MW-25HA **Lab ID: 30470864029** Collected: 02/16/22 13:22 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.299 ± 0.186 (0.262) C:104% T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.464U ± 0.348 (0.675) C:66% T:89% | pCi/L | 04/04/22 12:18 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.763U ± 0.534 (0.937) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03546 MW-41HD **Lab ID: 30470864030** Collected: 02/15/22 09:25 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.132U ± 0.134 (0.240) C:104% T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.124U ± 0.247 (0.547) C:77% T:90% | pCi/L | 04/04/22 15:27 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.256U ± 0.381 (0.787) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03547 MW-24H **Lab ID: 30470864031** Collected: 02/15/22 10:37 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.484 ± 0.254 (0.353) C:97% T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.673 ± 0.364 (0.632) C:71% T:90% | pCi/L | 04/04/22 15:27 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.16 ± 0.618 (0.985) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03548 MW-24H DUP **Lab ID: 30470864032** Collected: 02/15/22 10:37 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.428 ± 0.235 (0.330) C:96% T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.282U ± 0.302 (0.626) C:76% T:94% | pCi/L | 04/04/22 15:27 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.710U ± 0.537 (0.956) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03549 MW-40H **Lab ID: 30470864033** Collected: 02/15/22 12:25 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.313U ± 0.225 (0.393) C:101% T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.327U ± 0.349 (0.726) C:71% T:92% | pCi/L | 04/04/22 15:27 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.640U ± 0.574 (1.12) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03550 MW-26H **Lab ID: 30470864034** Collected: 02/15/22 14:13 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.354 ± 0.200 (0.266) C:103% T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.840 ± 0.384 (0.619) C:73% T:90% | pCi/L | 04/04/22 15:27 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.19 ± 0.584 (0.885) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03551 MW-42H **Lab ID: 30470864035** Collected: 02/16/22 10:43 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.124U ± 0.162 (0.341) C:96% T:NA | pCi/L | 04/10/22 13:58 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.151U ± 0.233 (0.504) C:79% T:85% | pCi/L | 04/04/22 11:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.275U ± 0.395 (0.845) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03552 MW-8 **Lab ID: 30470864036** Collected: 02/16/22 12:14 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.178U ± 0.160 (0.282) C:97% T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.383U ± 0.313 (0.618) C:74% T:92% | pCi/L | 04/04/22 15:27 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.561U ± 0.473 (0.900) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03553 MW-3 **Lab ID: 30470864037** Collected: 02/16/22 14:57 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.443 ± 0.236 (0.301) C:94% T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.158U ± 0.340 (0.753) C:71% T:90% | pCi/L | 04/04/22 15:27 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.601U ± 0.576 (1.05) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03554 FB-1 **Lab ID: 30470864038** Collected: 02/16/22 15:50 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.172U ± 0.176 (0.345) C:100% T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.349U ± 0.314 (0.631) C:72% T:93% | pCi/L | 04/04/22 15:28 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.521U ± 0.490 (0.976) | pCi/L | 04/12/22 12:21 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03974 MW-43H **Lab ID: 30470864039** Collected: 02/21/22 11:43 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.251U ± 0.189 (0.321) C:100% T:NA | pCi/L | 04/08/22 09:08 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.258U ± 0.329 (0.696) C:69% T:85% | pCi/L | 04/04/22 15:28 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.509U ± 0.518 (1.02) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03975 PZ-18R **Lab ID: 30470864040** Collected: 02/21/22 14:40 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.169U ± 0.144 (0.228) C:95% T:NA | pCi/L | 04/08/22 09:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.606U ± 0.545 (1.10) C:70% T:64% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.775U ± 0.689 (1.33) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03976 MW-36V **Lab ID: 30470864041** Collected: 02/22/22 10:06 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.271 ± 0.179 (0.247) C:95% T:NA | pCi/L | 04/08/22 09:08 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.224U ± 0.370 (0.804) C:79% T:70% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.495U ± 0.549 (1.05) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03977 MW-27HR **Lab ID: 30470864042** Collected: 02/22/22 12:03 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.253U ± 0.175 (0.260) C:97% T:NA | pCi/L | 04/08/22 09:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.392U ± 0.402 (0.831) C:75% T:78% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.645U ± 0.577 (1.09) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03978 FB-6 **Lab ID: 30470864043** Collected: 02/22/22 12:40 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0537U ± 0.103 (0.235) C:100% T:NA | pCi/L | 04/08/22 09:08 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.328U ± 0.303 (0.613) C:77% T:92% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.382U ± 0.406 (0.848) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03979 MW-18R **Lab ID: 30470864044** Collected: 02/22/22 13:42 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.211U ± 0.173 (0.294) C:91% T:NA | pCi/L | 04/08/22 09:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.750U ± 0.432 (0.776) C:68% T:84% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.961U ± 0.605 (1.07) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03980 MW-18R DUP **Lab ID: 30470864045** Collected: 02/22/22 13:42 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0743U ± 0.123 (0.271) C:93% T:NA | pCi/L | 04/08/22 09:08 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.209U ± 0.321 (0.695) C:79% T:82% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.283U ± 0.444 (0.966) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03981 MW-18VR **Lab ID: 30470864046** Collected: 02/22/22 15:15 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.174U ± 0.176 (0.345) C:96% T:NA | pCi/L | 04/08/22 09:08 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0126U ± 0.267 (0.623) C:76% T:94% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.187U ± 0.443 (0.968) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03982 MW-45V **Lab ID: 30470864047** Collected: 02/23/22 11:29 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0841U ± 0.165 (0.380) C:97% T:NA | pCi/L | 04/08/22 09:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.358U ± 0.413 (0.867) C:73% T:78% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.442U ± 0.578 (1.25) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03983 MW-03V **Lab ID: 30470864048** Collected: 02/23/22 12:49 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.102U ± 0.132 (0.269) C:95% T:NA | pCi/L | 04/08/22 09:05 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.468U ± 0.328 (0.624) C:75% T:89% | pCi/L | 04/05/22 14:31 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.570U ± 0.460 (0.893) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03984 MW-9V **Lab ID: 30470864049** Collected: 02/21/22 12:08 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0977U ± 0.150 (0.329) C:95% T:NA | pCi/L | 04/08/22 09:06 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0362U ± 0.353 (0.820) C:74% T:74% | pCi/L | 04/05/22 14:32 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.134U ± 0.503 (1.15) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03985 MW-38H **Lab ID: 30470864050** Collected: 02/22/22 09:35 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.102U ± 0.146 (0.311) C:93% T:NA | pCi/L | 04/08/22 09:06 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.239U ± 0.353 (0.760) C:76% T:76% | pCi/L | 04/05/22 14:32 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.341U ± 0.499 (1.07) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03986 MW-19 **Lab ID: 30470864051** Collected: 02/22/22 11:18 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0394U ± 0.126 (0.314) C:101% T:NA | pCi/L | 04/08/22 09:11 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.600U ± 0.380 (0.708) C:75% T:85% | pCi/L | 04/05/22 14:32 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.639U ± 0.506 (1.02) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03987 MW-19 DUP **Lab ID: 30470864052** Collected: 02/22/22 11:18 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.233U ± 0.168 (0.254) C:99% T:NA | pCi/L | 04/08/22 09:11 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.336U ± 0.345 (0.713) C:77% T:88% | pCi/L | 04/05/22 14:32 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.569U ± 0.513 (0.967) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03988 MW-2 **Lab ID: 30470864053** Collected: 02/22/22 13:17 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0750U ± 0.0992 (0.191) C:100% T:NA | pCi/L | 04/08/22 09:11 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.135U ± 0.288 (0.638) C:76% T:87% | pCi/L | 04/05/22 14:32 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.210U ± 0.387 (0.829) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03989 MW-12V **Lab ID: 30470864054** Collected: 02/23/22 12:33 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.471 ± 0.220 (0.222) C:103% T:NA | pCi/L | 04/08/22 09:11 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.831 ± 0.391 (0.655) C:80% T:89% | pCi/L | 04/05/22 14:32 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.30 ± 0.611 (0.877) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03990 FB-5 **Lab ID: 30470864055** Collected: 02/23/22 13:30 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.231U ± 0.174 (0.275) C:99% T:NA | pCi/L | 04/08/22 09:11 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.177U ± 0.290 (0.630) C:79% T:92% | pCi/L | 04/04/22 11:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.408U ± 0.464 (0.905) | pCi/L | 04/12/22 12:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03991 MW-31V **Lab ID: 30470864056** Collected: 02/22/22 13:07 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.142U ± 0.152 (0.293) C:94% T:NA | pCi/L | 04/10/22 13:58 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.344U ± 0.299 (0.600) C:81% T:85% | pCi/L | 04/04/22 11:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.486U ± 0.451 (0.893) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03992 MW-46 **Lab ID: 30470864057** Collected: 02/23/22 10:30 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0802U ± 0.118 (0.253) C:96% T:NA | pCi/L | 04/10/22 13:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0172U ± 0.247 (0.582) C:73% T:84% | pCi/L | 04/04/22 11:42 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.0974U ± 0.365 (0.835) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03993 FB-4 **Lab ID: 30470864058** Collected: 02/23/22 11:00 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0113U ± 0.123 (0.328) C:98% T:NA | pCi/L | 04/10/22 13:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.240U ± 0.272 (0.569) C:85% T:90% | pCi/L | 04/04/22 11:42 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.251U ± 0.395 (0.897) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03994 MW-23V **Lab ID: 30470864059** Collected: 02/23/22 13:33 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0618U ± 0.130 (0.305) C:99% T:NA | pCi/L | 04/10/22 13:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.196U ± 0.318 (0.691) C:72% T:74% | pCi/L | 04/04/22 14:45 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.258U ± 0.448 (0.996) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC04387 MW-37HR **Lab ID: 30470864060** Collected: 02/28/22 12:20 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0396U ± 0.141 (0.353) C:92% T:NA | pCi/L | 04/10/22 13:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.699 ± 0.379 (0.650) C:71% T:78% | pCi/L | 04/04/22 14:46 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.739U ± 0.520 (1.00) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC04388 MW-47 **Lab ID: 30470864061** Collected: 02/28/22 14:12 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0650U ± 0.118 (0.266) C:96% T:NA | pCi/L | 04/10/22 13:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.109U ± 0.340 (0.766) C:70% T:91% | pCi/L | 04/04/22 14:46 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.174U ± 0.458 (1.03) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC04389 MW-14R **Lab ID: 30470864062** Collected: 02/28/22 15:33 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.219U ± 0.176 (0.295) C:99% T:NA | pCi/L | 04/10/22 13:59 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.582U ± 0.471 (0.932) C:69% T:68% | pCi/L | 04/04/22 14:46 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.801U ± 0.647 (1.23) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC04390 MW-13R **Lab ID: 30470864063** Collected: 03/01/22 08:34 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0392U ± 0.125 (0.312) C:97% T:NA | pCi/L | 04/10/22 13:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.617U ± 0.365 (0.648) C:75% T:75% | pCi/L | 04/04/22 14:46 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.656U ± 0.490 (0.960) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC04391 MW-10R **Lab ID: 30470864064** Collected: 03/01/22 12:07 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.378U ± 0.237 (0.379) C:97% T:NA | pCi/L | 04/11/22 07:43 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.670U ± 0.391 (0.709) C:70% T:84% | pCi/L | 04/04/22 14:46 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.05U ± 0.628 (1.09) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC04392 MW-12 **Lab ID: 30470864065** Collected: 02/28/22 14:40 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.211U ± 0.183 (0.333) C:99% T:NA | pCi/L | 04/11/22 08:14 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.514U ± 0.400 (0.791) C:69% T:85% | pCi/L | 04/04/22 14:46 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.725U ± 0.583 (1.12) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC04393 MW-09R **Lab ID: 30470864066** Collected: 03/01/22 12:04 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.367 ± 0.212 (0.291) C:92% T:NA | pCi/L | 04/11/22 07:46 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.296U ± 0.379 (0.804) C:68% T:81% | pCi/L | 04/04/22 14:46 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.663U ± 0.591 (1.10) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC04394 EB-1 **Lab ID: 30470864067** Collected: 03/01/22 12:30 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0180U ± 0.0951 (0.255) C:99% T:NA | pCi/L | 04/11/22 07:49 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.355U ± 0.355 (0.730) C:73% T:86% | pCi/L | 04/04/22 14:49 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.373U ± 0.450 (0.985) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC04395 MW-01R **Lab ID: 30470864068** Collected: 03/01/22 08:54 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0757U ± 0.144 (0.331) C:96% T:NA | pCi/L | 04/11/22 07:49 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.760U ± 0.470 (0.880) C:68% T:83% | pCi/L | 04/04/22 14:49 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.836U ± 0.614 (1.21) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350
Pace Project No.: 30470864

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: BC04396 MW-11R Lab ID: 30470864069 Collected: 03/01/22 11:20 Received: 03/04/22 09:45 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.525 ± 0.250 (0.313) C:93% T:NA | pCi/L | 04/11/22 07:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.232U ± 0.382 (0.831) C:70% T:83% | pCi/L | 04/04/22 14:49 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.757U ± 0.632 (1.14) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC04397 MW-05R **Lab ID: 30470864070** Collected: 03/01/22 13:34 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.276U ± 0.197 (0.331) C:99% T:NA | pCi/L | 04/11/22 07:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.523U ± 0.474 (0.965) C:68% T:75% | pCi/L | 04/04/22 14:51 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.799U ± 0.671 (1.30) | pCi/L | 04/12/22 12:29 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03250 MS **Lab ID: 30470864071** Collected: 02/14/22 10:21 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Sample is an MS of 30470864 009.

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 107.55 %REC ± NA (NA) C:NA T:NA | pCi/L | 04/07/22 09:01 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 77.80 %REC ± NA (NA) C:NA T:NA | pCi/L | 03/31/22 14:32 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03250 MSD **Lab ID: 30470864072** Collected: 02/14/22 10:21 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Sample is an MSD of 30470864 009.

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 114.10 %REC 5.91RPD ± NA (NA) C:NA T:NA | pCi/L | 04/07/22 09:01 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 69.61 %REC 11.11 RPD ± NA (NA) C:NA T:NA | pCi/L | 03/31/22 14:32 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03256 MS **Lab ID: 30470864073** Collected: 02/14/22 12:34 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Sample is an MS of 30470864 015.

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 107.67 %REC ± NA (NA) C:NA T:NA | pCi/L | 04/08/22 08:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 98.00 %REC ± NA (NA) C:NA T:NA | pCi/L | 04/05/22 14:32 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03256 MSD **Lab ID: 30470864074** Collected: 02/14/22 12:34 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Sample is an MSD of 30470864 015.

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 102.37 %REC 5.05RPD ± NA (NA) C:NA T:NA | pCi/L | 04/08/22 09:00 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 72.49 %REC 29.92 RPD ± NA (NA) C:NA T:NA | pCi/L | 04/05/22 14:32 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03539 MS **Lab ID: 30470864075** Collected: 02/15/22 11:08 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Sample is an MS of 30470864 023.

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 84.65 %REC ± NA (NA) C:NA T:NA | pCi/L | 04/08/22 09:11 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 90.24 %REC ± NA (NA) C:NA T:NA | pCi/L | 04/04/22 15:28 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03539 MSD **Lab ID: 30470864076** Collected: 02/15/22 11:08 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Sample is an MSD of 30470864 023.

| Parameters | Method | Act ± Unc (MDC) | Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|-------------------|----------------------|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-226 | EPA 9315 | 90.02 %REC | 6.15RPD ± NA | pCi/L | 04/08/22 09:12 | 13982-63-3 | |
| | | (NA) | | | | | |
| | | C:NA T:NA | | | | | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | 94.32 %REC | 4.42 RPD ± NA | pCi/L | 04/04/22 12:18 | 15262-20-1 | |
| | | (NA) | | | | | |
| | | C:NA T:NA | | | | | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03551 MS **Lab ID: 30470864077** Collected: 02/16/22 10:43 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Sample is an MS of 30470864 035.

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 108.71 %REC ± NA (NA) C:NA T:NA | pCi/L | 04/11/22 08:05 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 104.58 %REC ± NA (NA) C:NA T:NA | pCi/L | 04/04/22 14:49 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

Sample: BC03551 MSD **Lab ID: 30470864078** Collected: 02/16/22 10:43 Received: 03/04/22 09:45 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Sample is an MSD of 30470864 035.

| Parameters | Method | Act ± Unc (MDC) | Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|--------------------|--------------------|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-226 | EPA 9315 | 105.87%REC | 2.64RPD ± | pCi/L | 04/11/22 08:05 | 13982-63-3 | |
| | | NA (NA) | | | | | |
| | | C:NA T:NA | | | | | |
| Pace Analytical Services - Greensburg | | | | | | | |
| Radium-228 | EPA 9320 | 125.68 %REC | 18.32 RPD ± | pCi/L | 04/04/22 14:49 | 15262-20-1 | |
| | | NA (NA) | | | | | |
| | | C:NA T:NA | | | | | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORAP_1350

Pace Project No.: 30470864

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 491661 | Analysis Method: | EPA 9320 |
| QC Batch Method: | EPA 9320 | Analysis Description: | 9320 Radium 228 |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 30470864021, 30470864022, 30470864023, 30470864024, 30470864025, 30470864026, 30470864027, 30470864028, 30470864029, 30470864030, 30470864031, 30470864032, 30470864033, 30470864034, 30470864036, 30470864037, 30470864038, 30470864039, 30470864075, 30470864076

| | | | |
|---------------|---------|---------|-------|
| METHOD BLANK: | 2378710 | Matrix: | Water |
|---------------|---------|---------|-------|

Associated Lab Samples: 30470864021, 30470864022, 30470864023, 30470864024, 30470864025, 30470864026, 30470864027, 30470864028, 30470864029, 30470864030, 30470864031, 30470864032, 30470864033, 30470864034, 30470864036, 30470864037, 30470864038, 30470864039, 30470864075, 30470864076

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.553 ± 0.376 (0.709) C:77% T:77% | pCi/L | 04/04/22 12:18 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: WMWGORAP_1350

Pace Project No.: 30470864

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1350
Pace Project No.: 30470864

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|------------------|
| 30470864001 | BC02839 MW-7 | EPA 9315 | 490016 | | |
| 30470864002 | BC02840 MW-7 Diss | EPA 9315 | 490016 | | |
| 30470864003 | BC02841 MW-41HS | EPA 9315 | 490016 | | |
| 30470864004 | BC02842 MW-6V | EPA 9315 | 490016 | | |
| 30470864005 | BC02843 MW-30HA | EPA 9315 | 490016 | | |
| 30470864006 | BC02844 MW-21 | EPA 9315 | 490016 | | |
| 30470864007 | BC02845 MW-21V | EPA 9315 | 490016 | | |
| 30470864008 | BC02846 MW-31H | EPA 9315 | 490016 | | |
| 30470864009 | BC03250 PZ-22 | EPA 9315 | 490016 | | |
| 30470864010 | BC03251 MW-17 | EPA 9315 | 490016 | | |
| 30470864011 | BC03252 MW-17V | EPA 9315 | 490016 | | |
| 30470864012 | BC03253 MW-36H | EPA 9315 | 490016 | | |
| 30470864013 | BC03254 MW-6S | EPA 9315 | 490016 | | |
| 30470864014 | BC03255 MW-6S DUP | EPA 9315 | 490016 | | |
| 30470864015 | BC03256 MW-6D | EPA 9315 | 490017 | | |
| 30470864016 | BC03257 MW-23H | EPA 9315 | 490016 | | |
| 30470864017 | BC03258 MW-23H DUP | EPA 9315 | 490016 | | |
| 30470864018 | BC03259 MW-28H | EPA 9315 | 490017 | | |
| 30470864019 | BC03260 MW-28H DUP | EPA 9315 | 490016 | | |
| 30470864020 | BC03261 MW-29H | EPA 9315 | 490016 | | |
| 30470864021 | BC03262 FB-3 | EPA 9315 | 490017 | | |
| 30470864022 | BC03263 MW-32H | EPA 9315 | 490017 | | |
| 30470864023 | BC03539 PZ-16 | EPA 9315 | 490018 | | |
| 30470864024 | BC03540 MW-16D | EPA 9315 | 490017 | | |
| 30470864025 | BC03541 MW-16S | EPA 9315 | 490017 | | |
| 30470864026 | BC03542 FB-2 | EPA 9315 | 490017 | | |
| 30470864027 | BC03543 MW-15 | EPA 9315 | 490017 | | |
| 30470864028 | BC03544 MW-15V | EPA 9315 | 490017 | | |
| 30470864029 | BC03545 MW-25HA | EPA 9315 | 490017 | | |
| 30470864030 | BC03546 MW-41HD | EPA 9315 | 490017 | | |
| 30470864031 | BC03547 MW-24H | EPA 9315 | 490017 | | |
| 30470864032 | BC03548 MW-24H DUP | EPA 9315 | 490017 | | |
| 30470864033 | BC03549 MW-40H | EPA 9315 | 490017 | | |
| 30470864034 | BC03550 MW-26H | EPA 9315 | 490017 | | |
| 30470864035 | BC03551 MW-42H | EPA 9315 | 490020 | | |
| 30470864036 | BC03552 MW-8 | EPA 9315 | 490017 | | |
| 30470864037 | BC03553 MW-3 | EPA 9315 | 490017 | | |
| 30470864038 | BC03554 FB-1 | EPA 9315 | 490017 | | |
| 30470864039 | BC03974 MW-43H | EPA 9315 | 490018 | | |
| 30470864040 | BC03975 PZ-18R | EPA 9315 | 490018 | | |
| 30470864041 | BC03976 MW-36V | EPA 9315 | 490018 | | |
| 30470864042 | BC03977 MW-27HR | EPA 9315 | 490018 | | |
| 30470864043 | BC03978 FB-6 | EPA 9315 | 490018 | | |
| 30470864044 | BC03979 MW-18R | EPA 9315 | 490018 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1350

Pace Project No.: 30470864

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|------------------|
| 30470864045 | BC03980 MW-18R DUP | EPA 9315 | 490018 | | |
| 30470864046 | BC03981 MW-18VR | EPA 9315 | 490018 | | |
| 30470864047 | BC03982 MW-45V | EPA 9315 | 490018 | | |
| 30470864048 | BC03983 MW-03V | EPA 9315 | 490018 | | |
| 30470864049 | BC03984 MW-9V | EPA 9315 | 490018 | | |
| 30470864050 | BC03985 MW-38H | EPA 9315 | 490018 | | |
| 30470864051 | BC03986 MW-19 | EPA 9315 | 490018 | | |
| 30470864052 | BC03987 MW-19 DUP | EPA 9315 | 490018 | | |
| 30470864053 | BC03988 MW-2 | EPA 9315 | 490018 | | |
| 30470864054 | BC03989 MW-12V | EPA 9315 | 490018 | | |
| 30470864055 | BC03990 FB-5 | EPA 9315 | 490018 | | |
| 30470864056 | BC03991 MW-31V | EPA 9315 | 490020 | | |
| 30470864057 | BC03992 MW-46 | EPA 9315 | 490020 | | |
| 30470864058 | BC03993 FB-4 | EPA 9315 | 490020 | | |
| 30470864059 | BC03994 MW-23V | EPA 9315 | 490020 | | |
| 30470864060 | BC04387 MW-37HR | EPA 9315 | 490020 | | |
| 30470864061 | BC04388 MW-47 | EPA 9315 | 490020 | | |
| 30470864062 | BC04389 MW-14R | EPA 9315 | 490020 | | |
| 30470864063 | BC04390 MW-13R | EPA 9315 | 490020 | | |
| 30470864064 | BC04391 MW-10R | EPA 9315 | 490020 | | |
| 30470864065 | BC04392 MW-12 | EPA 9315 | 490020 | | |
| 30470864066 | BC04393 MW-09R | EPA 9315 | 490020 | | |
| 30470864067 | BC04394 EB-1 | EPA 9315 | 490020 | | |
| 30470864068 | BC04395 MW-01R | EPA 9315 | 490020 | | |
| 30470864069 | BC04396 MW-11R | EPA 9315 | 490020 | | |
| 30470864070 | BC04397 MW-05R | EPA 9315 | 490020 | | |
| 30470864071 | BC03250 MS | EPA 9315 | 490016 | | |
| 30470864072 | BC03250 MSD | EPA 9315 | 490016 | | |
| 30470864073 | BC03256 MS | EPA 9315 | 490017 | | |
| 30470864074 | BC03256 MSD | EPA 9315 | 490017 | | |
| 30470864075 | BC03539 MS | EPA 9315 | 490018 | | |
| 30470864076 | BC03539 MSD | EPA 9315 | 490018 | | |
| 30470864077 | BC03551 MS | EPA 9315 | 490020 | | |
| 30470864078 | BC03551 MSD | EPA 9315 | 490020 | | |
| 30470864001 | BC02839 MW-7 | EPA 9320 | 491659 | | |
| 30470864002 | BC02840 MW-7 Diss | EPA 9320 | 491659 | | |
| 30470864003 | BC02841 MW-41HS | EPA 9320 | 491659 | | |
| 30470864004 | BC02842 MW-6V | EPA 9320 | 491659 | | |
| 30470864005 | BC02843 MW-30HA | EPA 9320 | 491659 | | |
| 30470864006 | BC02844 MW-21 | EPA 9320 | 491659 | | |
| 30470864007 | BC02845 MW-21V | EPA 9320 | 491659 | | |
| 30470864008 | BC02846 MW-31H | EPA 9320 | 491659 | | |
| 30470864009 | BC03250 PZ-22 | EPA 9320 | 491659 | | |
| 30470864010 | BC03251 MW-17 | EPA 9320 | 491659 | | |
| 30470864011 | BC03252 MW-17V | EPA 9320 | 491659 | | |
| 30470864012 | BC03253 MW-36H | EPA 9320 | 491659 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1350

Pace Project No.: 30470864

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|------------------|
| 30470864013 | BC03254 MW-6S | EPA 9320 | 491659 | | |
| 30470864014 | BC03255 MW-6S DUP | EPA 9320 | 491659 | | |
| 30470864015 | BC03256 MW-6D | EPA 9320 | 491670 | | |
| 30470864016 | BC03257 MW-23H | EPA 9320 | 491659 | | |
| 30470864017 | BC03258 MW-23H DUP | EPA 9320 | 491659 | | |
| 30470864018 | BC03259 MW-28H | EPA 9320 | 491659 | | |
| 30470864019 | BC03260 MW-28H DUP | EPA 9320 | 491670 | | |
| 30470864020 | BC03261 MW-29H | EPA 9320 | 491670 | | |
| 30470864021 | BC03262 FB-3 | EPA 9320 | 491661 | | |
| 30470864022 | BC03263 MW-32H | EPA 9320 | 491661 | | |
| 30470864023 | BC03539 PZ-16 | EPA 9320 | 491661 | | |
| 30470864024 | BC03540 MW-16D | EPA 9320 | 491661 | | |
| 30470864025 | BC03541 MW-16S | EPA 9320 | 491661 | | |
| 30470864026 | BC03542 FB-2 | EPA 9320 | 491661 | | |
| 30470864027 | BC03543 MW-15 | EPA 9320 | 491661 | | |
| 30470864028 | BC03544 MW-15V | EPA 9320 | 491661 | | |
| 30470864029 | BC03545 MW-25HA | EPA 9320 | 491661 | | |
| 30470864030 | BC03546 MW-41HD | EPA 9320 | 491661 | | |
| 30470864031 | BC03547 MW-24H | EPA 9320 | 491661 | | |
| 30470864032 | BC03548 MW-24H DUP | EPA 9320 | 491661 | | |
| 30470864033 | BC03549 MW-40H | EPA 9320 | 491661 | | |
| 30470864034 | BC03550 MW-26H | EPA 9320 | 491661 | | |
| 30470864035 | BC03551 MW-42H | EPA 9320 | 491672 | | |
| 30470864036 | BC03552 MW-8 | EPA 9320 | 491661 | | |
| 30470864037 | BC03553 MW-3 | EPA 9320 | 491661 | | |
| 30470864038 | BC03554 FB-1 | EPA 9320 | 491661 | | |
| 30470864039 | BC03974 MW-43H | EPA 9320 | 491661 | | |
| 30470864040 | BC03975 PZ-18R | EPA 9320 | 491670 | | |
| 30470864041 | BC03976 MW-36V | EPA 9320 | 491670 | | |
| 30470864042 | BC03977 MW-27HR | EPA 9320 | 491670 | | |
| 30470864043 | BC03978 FB-6 | EPA 9320 | 491670 | | |
| 30470864044 | BC03979 MW-18R | EPA 9320 | 491670 | | |
| 30470864045 | BC03980 MW-18R DUP | EPA 9320 | 491670 | | |
| 30470864046 | BC03981 MW-18VR | EPA 9320 | 491670 | | |
| 30470864047 | BC03982 MW-45V | EPA 9320 | 491670 | | |
| 30470864048 | BC03983 MW-03V | EPA 9320 | 491670 | | |
| 30470864049 | BC03984 MW-9V | EPA 9320 | 491670 | | |
| 30470864050 | BC03985 MW-38H | EPA 9320 | 491670 | | |
| 30470864051 | BC03986 MW-19 | EPA 9320 | 491670 | | |
| 30470864052 | BC03987 MW-19 DUP | EPA 9320 | 491670 | | |
| 30470864053 | BC03988 MW-2 | EPA 9320 | 491670 | | |
| 30470864054 | BC03989 MW-12V | EPA 9320 | 491670 | | |
| 30470864055 | BC03990 FB-5 | EPA 9320 | 491672 | | |
| 30470864056 | BC03991 MW-31V | EPA 9320 | 491672 | | |
| 30470864057 | BC03992 MW-46 | EPA 9320 | 491672 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1350

Pace Project No.: 30470864

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|--------------------------|----------|-------------------|------------------|
| 30470864058 | BC03993 FB-4 | EPA 9320 | 491672 | | |
| 30470864059 | BC03994 MW-23V | EPA 9320 | 491672 | | |
| 30470864060 | BC04387 MW-37HR | EPA 9320 | 491672 | | |
| 30470864061 | BC04388 MW-47 | EPA 9320 | 491672 | | |
| 30470864062 | BC04389 MW-14R | EPA 9320 | 491672 | | |
| 30470864063 | BC04390 MW-13R | EPA 9320 | 491672 | | |
| 30470864064 | BC04391 MW-10R | EPA 9320 | 491672 | | |
| 30470864065 | BC04392 MW-12 | EPA 9320 | 491672 | | |
| 30470864066 | BC04393 MW-09R | EPA 9320 | 491672 | | |
| 30470864067 | BC04394 EB-1 | EPA 9320 | 491672 | | |
| 30470864068 | BC04395 MW-01R | EPA 9320 | 491672 | | |
| 30470864069 | BC04396 MW-11R | EPA 9320 | 491672 | | |
| 30470864070 | BC04397 MW-05R | EPA 9320 | 491672 | | |
| 30470864071 | BC03250 MS | EPA 9320 | 491659 | | |
| 30470864072 | BC03250 MSD | EPA 9320 | 491659 | | |
| 30470864073 | BC03256 MS | EPA 9320 | 491670 | | |
| 30470864074 | BC03256 MSD | EPA 9320 | 491670 | | |
| 30470864075 | BC03539 MS | EPA 9320 | 491661 | | |
| 30470864076 | BC03539 MSD | EPA 9320 | 491661 | | |
| 30470864077 | BC03551 MS | EPA 9320 | 491672 | | |
| 30470864078 | BC03551 MSD | EPA 9320 | 491672 | | |
| 30470864001 | BC02839 MW-7 | Total Radium Calculation | 496836 | | |
| 30470864002 | BC02840 MW-7 Diss | Total Radium Calculation | 496836 | | |
| 30470864003 | BC02841 MW-41HS | Total Radium Calculation | 496836 | | |
| 30470864004 | BC02842 MW-6V | Total Radium Calculation | 496836 | | |
| 30470864005 | BC02843 MW-30HA | Total Radium Calculation | 496836 | | |
| 30470864006 | BC02844 MW-21 | Total Radium Calculation | 496836 | | |
| 30470864007 | BC02845 MW-21V | Total Radium Calculation | 496836 | | |
| 30470864008 | BC02846 MW-31H | Total Radium Calculation | 496836 | | |
| 30470864009 | BC03250 PZ-22 | Total Radium Calculation | 496836 | | |
| 30470864010 | BC03251 MW-17 | Total Radium Calculation | 496836 | | |
| 30470864011 | BC03252 MW-17V | Total Radium Calculation | 496836 | | |
| 30470864012 | BC03253 MW-36H | Total Radium Calculation | 496836 | | |
| 30470864013 | BC03254 MW-6S | Total Radium Calculation | 496836 | | |
| 30470864014 | BC03255 MW-6S DUP | Total Radium Calculation | 496836 | | |
| 30470864015 | BC03256 MW-6D | Total Radium Calculation | 496834 | | |
| 30470864016 | BC03257 MW-23H | Total Radium Calculation | 496836 | | |
| 30470864017 | BC03258 MW-23H DUP | Total Radium Calculation | 496836 | | |
| 30470864018 | BC03259 MW-28H | Total Radium Calculation | 496834 | | |
| 30470864019 | BC03260 MW-28H DUP | Total Radium Calculation | 496836 | | |
| 30470864020 | BC03261 MW-29H | Total Radium Calculation | 496836 | | |
| 30470864021 | BC03262 FB-3 | Total Radium Calculation | 496834 | | |
| 30470864022 | BC03263 MW-32H | Total Radium Calculation | 496834 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1350
Pace Project No.: 30470864

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|--------------------------|----------|-------------------|------------------|
| 30470864023 | BC03539 PZ-16 | Total Radium Calculation | 496835 | | |
| 30470864024 | BC03540 MW-16D | Total Radium Calculation | 496834 | | |
| 30470864025 | BC03541 MW-16S | Total Radium Calculation | 496834 | | |
| 30470864026 | BC03542 FB-2 | Total Radium Calculation | 496834 | | |
| 30470864027 | BC03543 MW-15 | Total Radium Calculation | 496834 | | |
| 30470864028 | BC03544 MW-15V | Total Radium Calculation | 496834 | | |
| 30470864029 | BC03545 MW-25HA | Total Radium Calculation | 496834 | | |
| 30470864030 | BC03546 MW-41HD | Total Radium Calculation | 496834 | | |
| 30470864031 | BC03547 MW-24H | Total Radium Calculation | 496834 | | |
| 30470864032 | BC03548 MW-24H DUP | Total Radium Calculation | 496834 | | |
| 30470864033 | BC03549 MW-40H | Total Radium Calculation | 496834 | | |
| 30470864034 | BC03550 MW-26H | Total Radium Calculation | 496834 | | |
| 30470864035 | BC03551 MW-42H | Total Radium Calculation | 496837 | | |
| 30470864036 | BC03552 MW-8 | Total Radium Calculation | 496834 | | |
| 30470864037 | BC03553 MW-3 | Total Radium Calculation | 496834 | | |
| 30470864038 | BC03554 FB-1 | Total Radium Calculation | 496834 | | |
| 30470864039 | BC03974 MW-43H | Total Radium Calculation | 496835 | | |
| 30470864040 | BC03975 PZ-18R | Total Radium Calculation | 496835 | | |
| 30470864041 | BC03976 MW-36V | Total Radium Calculation | 496835 | | |
| 30470864042 | BC03977 MW-27HR | Total Radium Calculation | 496835 | | |
| 30470864043 | BC03978 FB-6 | Total Radium Calculation | 496835 | | |
| 30470864044 | BC03979 MW-18R | Total Radium Calculation | 496835 | | |
| 30470864045 | BC03980 MW-18R DUP | Total Radium Calculation | 496835 | | |
| 30470864046 | BC03981 MW-18VR | Total Radium Calculation | 496835 | | |
| 30470864047 | BC03982 MW-45V | Total Radium Calculation | 496835 | | |
| 30470864048 | BC03983 MW-03V | Total Radium Calculation | 496835 | | |
| 30470864049 | BC03984 MW-9V | Total Radium Calculation | 496835 | | |
| 30470864050 | BC03985 MW-38H | Total Radium Calculation | 496835 | | |
| 30470864051 | BC03986 MW-19 | Total Radium Calculation | 496835 | | |
| 30470864052 | BC03987 MW-19 DUP | Total Radium Calculation | 496835 | | |
| 30470864053 | BC03988 MW-2 | Total Radium Calculation | 496835 | | |
| 30470864054 | BC03989 MW-12V | Total Radium Calculation | 496835 | | |
| 30470864055 | BC03990 FB-5 | Total Radium Calculation | 496835 | | |
| 30470864056 | BC03991 MW-31V | Total Radium Calculation | 496837 | | |
| 30470864057 | BC03992 MW-46 | Total Radium Calculation | 496837 | | |
| 30470864058 | BC03993 FB-4 | Total Radium Calculation | 496837 | | |
| 30470864059 | BC03994 MW-23V | Total Radium Calculation | 496837 | | |
| 30470864060 | BC04387 MW-37HR | Total Radium Calculation | 496837 | | |
| 30470864061 | BC04388 MW-47 | Total Radium Calculation | 496837 | | |
| 30470864062 | BC04389 MW-14R | Total Radium Calculation | 496837 | | |
| 30470864063 | BC04390 MW-13R | Total Radium Calculation | 496837 | | |
| 30470864064 | BC04391 MW-10R | Total Radium Calculation | 496837 | | |
| 30470864065 | BC04392 MW-12 | Total Radium Calculation | 496837 | | |
| 30470864066 | BC04393 MW-09R | Total Radium Calculation | 496837 | | |
| 30470864067 | BC04394 EB-1 | Total Radium Calculation | 496837 | | |
| 30470864068 | BC04395 MW-01R | Total Radium Calculation | 496837 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1350
Pace Project No.: 30470864

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------|--------------------------|----------|-------------------|------------------|
| 30470864069 | BC04396 MW-11R | Total Radium Calculation | 496837 | | |
| 30470864070 | BC04397 MW-05R | Total Radium Calculation | 496837 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed at

Section A
 Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lmidkiff@southernco.com
 Phone: 205-664-6197 Fax:
 Requested Due Date: Normal

Section B
 Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC10755638
 Project Name: Plant Gorgas Ash Pond
 Project Number: WNWGORAP_1350

Section C
 Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 CCR
 Alexis Ozoroski
 Pace Project Manager
 Pace Profile #: 13805

Regulatory Agency: AL
 State / Location: AL

| ITEM # | Description | Station Name Location_Code | Site Name Facility_ID | COLLECTED | | Matrix Spike/Matrix Spike Duplicate | Field Filled | Matrix Code | Sample Type (G=GRAV C=COMP) | # OF CONTAINERS | Requested Analysis Filtered (Y/N) | | | | Residual Chlorine (Y/N) |
|--------|------------------|----------------------------|-----------------------|------------|-------|-------------------------------------|--------------|-------------|-----------------------------|-----------------|-----------------------------------|---------------|----------|----------|-------------------------|
| | | | | START DATE | TIME | | | | | | Preservatives | Analyses Test | EPA 9315 | EPA 9320 | |
| 1 | BC02639 MW-7 | APCO-GS-AP-MW-7 | APCO_Gorgas_AshPond | 2/6/2022 | 11:20 | | | GW | G | 1 | X | X | X | X | 001 |
| 2 | BC02640 MW-7 DIS | APCO-GS-AP-MW-7 | APCO_Gorgas_AshPond | 2/6/2022 | 11:20 | X | | GW | G | 1 | X | X | X | X | 002 |
| 3 | BC02641 MW-41HS | APCO-GS-AP-MW-41HS | APCO_Gorgas_AshPond | 2/6/2022 | 14:43 | | | GW | G | 1 | X | X | X | X | 003 |
| 4 | BC02642 MW-6V | APCO-GS-AP-MW-6V | APCO_Gorgas_AshPond | 2/6/2022 | 12:00 | | | GW | G | 1 | X | X | X | X | 004 |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Laura Midkiff, APC GTL
 DATE: 3/2/2022
 TIME: 8:40

ACCEPTED BY / AFFILIATION: *[Signature]*
 DATE: 3-1-22
 TIME: 9:45

SAMPLE CONDITIONS: N Y Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: TJ DAUGHERTY
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed:

Received on: _____
 Ice (Y/N): _____
 Custody (Y/N): _____
 Sealed Cooler (Y/N): _____
 Inlet Samples (Y/N): _____

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Callera, AL 35040
 Email To: lbmidkiff@southernco.com
 Phone: 205-664-6197 | Fax:
 Requested Due Date: Normal

Section B
 Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC10755638
 Project Name: Plant Gorgas Ash Pond
 Project Number: VMWGORAP_1350

Section C
 Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 CCR
 Pace Quote: Alexis.Ozoroski@apcelabs.com
 Pace Project Manager:
 Pace Profile #: 13805

Regulatory Agency: AL
 State / Location: AL

| ITEM # | DESCRIPTION | STATION NAME LOCATION_CODE | SITE NAME FACILITY_ID | COLLECTED | | SAMPLE TYPE (G=GRAB C=COMP) | MATRIX CODE | FIELD FILTERED | MATRIX SPIKE/MATRIX SPIKE DUPLICATE | SAMPLE DUPLICATE | # OF CONTAINERS | PRESERVATIVES | ANALYSES TEST | Y/N | REQUESTED ANALYSIS FILTERED (Y/N) | RESIDUAL CHROME (Y/N) | TEMP IN C |
|--------|-------------|-------------------------------|--------------------------|---------------------|----------|-----------------------------|-------------|----------------|-------------------------------------|------------------|-----------------|---------------|---------------|-----|-----------------------------------|-----------------------|-----------|
| | | | | START DATE | TIME | | | | | | | | | | | | |
| 1 | BC02843 | MW-30HA | APCO-GS-AP-MW-30HA | APCO_Gorgas_AshPond | 2/8/2022 | 9:36 | GW | G | | | 1 | | | | | | |
| 2 | BC02844 | MW-21 | APCO-GS-AP-MW-21 | APCO_Gorgas_AshPond | 2/8/2022 | 11:11 | GW | G | | | 1 | | | | | | |
| 3 | BC02845 | MW-21V | APCO-GS-AP-MW-21V | APCO_Gorgas_AshPond | 2/8/2022 | 13:38 | GW | G | | | 1 | | | | | | |
| 4 | BC02846 | MW-31H | APCO-GS-AP-MW-31H | APCO_Gorgas_AshPond | 2/8/2022 | 16:04 | GW | G | | | 1 | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |

ADDITIONAL COMMENTS
 Relinquished by / Affiliation: Laura Midkiff/ APC GTL
 Date: 3/2/2022
 Time: 8:40
 Accepted by / Affiliation: *[Signature]*
 Date: 3-2-22
 Time: 9:45

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: DALLAS GENTRY
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: *[Blank]*

TEMP IN C
 Received on: *[Blank]*
 Ice (Y/N): *[Blank]*
 Custody (Y/N): *[Blank]*
 Sealed (Y/N): *[Blank]*
 Cooler (Y/N): *[Blank]*
 Samples (Y/N): *[Blank]*

WO#: 30470864
 PM: AES Due Date: 03/25/22
 CLIENT: ALABAMA PWR

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | | | | |
|---|-------------------------------------|--|--|-----------------------------|--|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | Report To: Laura Midkiff | Copy To: Brooke Caton & Renee Jernigan | Company Name: Alabama Power Co. | Attention: Laura Midkiff | |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | | | Address: 744 Highway 87 GSC Bldg #8 CCR | | |
| Email To: lmidkiff@southernco.com | Purchase Order #: APC10755638 | | Face Project Manager: Alexis Ozoroski | | |
| Phone: 205-664-6197 Fax | Project Name: Plant Gorgas Ash Pond | | Face Profile #: 13805 | | |
| Requested Due Date: Normal | Project Number: WMWGORAP_1350 | | | | |

| ITEM # | DESCRIPTION | Station Name Location Code | Site Name Facility ID | COLLECTED | | SAMPLE TYPE (G=GRAB C=COMP) | Matrix Code | Matrix Spike/Matrix Duplicate | Sample Duplicate | # OF CONTAINERS | Requested Analysis Filtered (Y/N) | | | | Residual Chlorine (Y/N) | TEMP in C | Received on | Ice (Y/N) | Custody | Sealed | Cooler | Samples Intact (Y/N) |
|---------------------|-------------|-------------------------------|--------------------------|-------------------------------|----------|-----------------------------|---------------------------|-------------------------------|------------------|-----------------|-----------------------------------|-------------|-------------------|------|-------------------------|-----------|-------------|-----------|---------|--------|--------|----------------------|
| | | | | START DATE | TIME | | | | | | Preservatives | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | | | |
| 1 | PZ-22 | APCO-GS-AP-PZ-22 | APCO_Gorgas_AshPond | 2/14/2022 | 10:21 | G | GW | X | | 3 | | | | | | | | | | | | |
| 2 | MW-17 | APCO-GS-AP-MW-17 | APCO_Gorgas_AshPond | 2/14/2022 | 11:42 | G | GW | | | 1 | | | | | | | | | | | | |
| 3 | MW-17V | APCO-GS-AP-MW-17V | APCO_Gorgas_AshPond | 2/14/2022 | 12:54 | G | GW | | | 1 | | | | | | | | | | | | |
| 4 | MW-36H | APCO-GS-AP-MW-36H | APCO_Gorgas_AshPond | 2/14/2022 | 15:28 | G | GW | | | 1 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | | | | | | | | | | | |
| ADDITIONAL COMMENTS | | | | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | | | | DATE | TIME | SAMPLE CONDITIONS | | | | | | | | | |
| | | | | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | [Signature] | | | | 3-4-22 | 9:45 | - N N Y | | | | | | | | | |

| | |
|----------------------------|---------------|
| SAMPLER NAME AND SIGNATURE | |
| PRINT Name of SAMPLER: | DALLAS GENTRY |
| SIGNATURE of SAMPLER: | DATE Signed: |

WO#: 30470864

PM: AES Due Date: 03/25/22
CLIENT: ALABAMA PWR

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | | |
|---|--|---------------------------------------|-------------------------------------|
| Section A | | Section B | |
| Required Client Information: | | Required Project Information: | |
| Company: Alabama Power Company | Report To: Laura Midkiff | Invoice Information: | Attention: Laura Midkiff |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: Brooke Caton & Renee Jernigan | Company Name: Alabama Power Co. | Address: 744 Highway 87 GSC Bldg #8 |
| Email To: lbmidkiff@southenergy.com | Purchase Order #: APC10755638 | Face Quote: CCR | State / Location: AL |
| Phone: 205-664-6197 Fax: | Project Name: Plant Gorgas Ash Pond | Face Project Manager: Alexis Ozoroski | Regulatory Agency: |
| Requested Due Date: Normal | Project Number: WMWGORAP_1350 | Face Profile #: 13805 | |

| ITEM # | Description | Station Name Location_Code | Site Name Facility_ID | COLLECTED | | Requested Analysis Filtered (Y/N) | Preservatives | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | Received on | Ice (Y/N) | Custody | Sealed | Cooler | Samples | Intact (Y/N) | |
|--------|-------------|-------------------------------|--------------------------|------------|-------|-----------------------------------|---------------|----------------|---------------|-----|----------|----------|------------------|---------------|-------------------------|-------------|-----------|---------|--------|--------|---------|--------------|------|
| | | | | START DATE | TIME | | Unpreserved | NaOH+ZnAcetate | | | | | | | | | | | | | | | HNO3 |
| 1 | MW-6S | APCO-GS-AP-MW-6S | APCO_Gorgas_AshPond | 2/14/2022 | 11:18 | X | | | | | X | X | X | | | | | | | | | | |
| 2 | MW-6S DUP | APCO-GS-AP-MW-6S | APCO_Gorgas_AshPond | 2/14/2022 | 11:18 | X | | | | | X | X | X | | | | | | | | | | |
| 3 | MW-6D | APCO-GS-AP-MW-6D | APCO_Gorgas_AshPond | 2/14/2022 | 12:34 | | | | | | X | X | X | | | | | | | | | | |
| 4 | MW-23H | APCO-GS-AP-MW-23H | APCO_Gorgas_AshPond | 2/14/2022 | 13:47 | X | | | | | X | X | X | | | | | | | | | | |
| 5 | MW-23H DUP | APCO-GS-AP-MW-23H | APCO_Gorgas_AshPond | 2/14/2022 | 13:47 | X | | | | | X | X | X | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | | ACCEPTED BY / AFFILIATION | | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|-----------------------|---------------------------|-----------------------|--------|------|-------------------|
| | PRINT Name of SAMPLER: | SIGNATURE of SAMPLER: | PRINT Name of SAMPLER: | SIGNATURE of SAMPLER: | | | |
| | Laura Midkiff/ APC GTL | | TJ Daugherty | | 3-1-22 | 9:45 | N F Y |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: TJ DAUGHERTY

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 3-1-22

WO#: 30470864

PM: AES Due Date: 03/25/22

CLIENT: ALABAMA PWR

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmidkiff@southernco.com
 Phone: 205-664-6197 Fax:
 Requested Due Date: Normal

Section B
Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC10755638
 Project Name: Plant Gorgas Ash Pond
 Project Number: WMWGORAP_1350

Section C
Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Alexis Ozoroski
 Pace Profile #: 13805

Regulatory Agency
 State / Location
 AL

| ITEM # | Description | Station Name Location Code | Site Name Facility ID | COLLECTED | | SAMPLE TYPE (G=GRAB C=COMP) | Field Filtered | Matrix Spike/Matrix Spike Duplicate | Sample Duplicate | # OF CONTAINERS | Preservatives | | | Analyses Test Y/N | Requested Analysis Filtered (Y/N) |
|--------|--------------------|----------------------------|-----------------------|------------|-------|-----------------------------|----------------|-------------------------------------|------------------|-----------------|---------------|----------------|------|-------------------|-----------------------------------|
| | | | | START DATE | TIME | | | | | | Unpreserved | NaOH+ZnAcetate | HNO3 | | |
| 1 | BC03546 MW-41HD | APCO-GS-AP-MW-41HD | APCO_Gorgas_AshPond | 2/15/2022 | 8:25 | G | | | | 1 | | | | | |
| 2 | BC03547 MW-24H | APCO-GS-AP-MW-24H | APCO_Gorgas_AshPond | 2/15/2022 | 10:37 | G | | | | 1 | | | | | |
| 3 | BC03548 MW-24H DUP | APCO-GS-AP-MW-24H | APCO_Gorgas_AshPond | 2/15/2022 | 10:37 | G | | X | | 1 | | | | | |
| 4 | BC03549 MW-40H | APCO-GS-AP-MW-40H | APCO_Gorgas_AshPond | 2/15/2022 | 12:25 | G | | | | 1 | | | | | |
| 5 | BC03550 MW-26H | APCO-GS-AP-MW-26H | APCO_Gorgas_AshPond | 2/15/2022 | 14:13 | G | | | | 1 | | | | | |
| 6 | BC03551 MW-42H | APCO-GS-AP-MW-42H | APCO_Gorgas_AshPond | 2/15/2022 | 10:43 | G | | X | | 3 | | | | | |
| 7 | BC03552 MW-8 | APCO-GS-AP-MW-8 | APCO_Gorgas_AshPond | 2/16/2022 | 12:14 | G | | | | 1 | | | | | |
| 8 | BC03553 MW-3 | APCO-GS-AP-MW-3 | APCO_Gorgas_AshPond | 2/16/2022 | 14:57 | G | | | | 1 | | | | | |
| 9 | BC03554 FB-2 | APCO-GS-AP-FB-02 | APCO_Gorgas_AshPond | 2/16/2022 | 15:50 | G | | | | 1 | | | | | |
| 10 | | | | | | | | | | | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|--------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | J. Adreya | 3-4-22 | 9:15 | N Y Y |
| | | | | | | | |
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SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: TJ DAUGHERTY
 SIGNATURE of SAMPLER: DATE Signed:

WO#: 30470864
 PM: AES Due Date: 03/25/22
 CLIENT: ALABAMA PMR

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | | | | |
|-------------------------------------|--|--------------------------------------|----------------------------|-----------------------------|--|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | Report To: Laura Mickliff | Attention: Laura Mickliff | Alabama Power Co. | | |
| Address: 744 Highway 87 GSC Bldg #8 | Copy To: Brooke Caton & Renee Jernigan | Company Name: Alabama Power Co. | 744 Highway 87 GSC Bldg #8 | | |
| Calera, AL 35040 | | Address: 744 Highway 87 GSC Bldg #8 | CCR | | |
| Email To: lbmickliff@southernco.com | Purchase Order #: APC10755638 | Address: Alexis Ozoroski | Regulatory Agency | | |
| Phone: 205-664-6197 Fax: Normal | Project Name: Plant Gorgas Ash Pond | Address: 13805 | State / Location AL | | |
| Requested Due Date: Normal | Project Number: WNWGORAP_1350 | Address: 13805 | State / Location AL | | |

| ITEM # | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Unpreserved | NaOH+ZnAcetate | HNO3 | Preservatives | Analyses Test | Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) |
|--------|----------------|----------------------------|-----------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------|-------------|----------------|------|---------------|---------------|-----|-----------------------------------|-------------------------|
| | | | | | | | | | DATE | TIME | | | | | | | | | |
| 1 | BC03991 MW-31V | APCO-GS-AP-MW-31V | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 13:07 | 1 | | | | | | | | |
| 2 | BC03992 MW-46 | APCO-GS-AP-MW-46 | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 10:30 | 1 | | | | | | | | |
| 3 | BC03993 FB-4 | APCO-GS-AP-FB-04 | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 11:00 | 1 | | | | | | | | |
| 4 | BC03994 MW-23V | APCO-GS-AP-MW-23V | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 13:33 | 1 | | | | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|--------|------|-------------------|
| | Laura Mickliff / APC STL | 3/2/2022 | 8:40 | <i>L. Mickliff</i> | 3-4-22 | 9:45 | N Y Y |
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|-----------------------------------|-----------------|
| SAMPLER NAME AND SIGNATURE | |
| PRINT Name of SAMPLER: | ANTHONY GOGGINS |
| SIGNATURE of SAMPLER: | DATE Signed: |

WO#: 30470864
 PM: AES Due Date: 03/25/22
 CLIENT: ALABAMA PWR

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: lbmidkiff@southernco.com
 Phone: 205-664-6197 Fax:
 Requested Due Date: Normal

Section B
 Required Project Information:
 Report To: Laura Midkiff
 Copy To: Brooke Caton & Renee Jernigan
 Purchase Order #: APC10755638
 Project Name: Plant Gorgas Ash Pond
 Project Number: WNWGORAP_1350

Section C
 Invoice Information:
 Attention: Laura Midkiff
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 CCR
 Alexis Ozoroski
 Pace Project Manager:
 Pace Profile #: 13805

Regulatory Agency
 State / Location
 AL

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9, -,) Sample ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | COLLECTED | | Matrix Spike/Matrix Spike Duplicate | Field Filtered | Matrix Code | Sample Type (G=GRAB C=COMP) | # OF CONTAINERS | Requested Analysis Filtered (Y/N) | | | | Residual Chlorine (Y/N) | |
|--------|---|-------------|-------------------------------|--------------------------|-----------|-------|-------------------------------------|----------------|-------------|-----------------------------|-----------------|-----------------------------------|---------------|-----|----------|-------------------------|----------|
| | | | | | DATE | TIME | | | | | | Preservatives | Analyses Test | Y/N | EPA 9320 | | EPA 9315 |
| 1 | BC04387 | MW-37HR | APCO-GS-AP-MW-37HR | APCO_Gorgas_AshPond | 2/28/2022 | 12:20 | | | GW | G | 1 | X | X | X | X | | |
| 2 | BC04388 | MW-47 | APCO-GS-AP-MW-47 | APCO_Gorgas_AshPond | 2/28/2022 | 14:12 | | | GW | G | 1 | X | X | X | X | | |
| 3 | BC04389 | MW-14R | APCO-GS-AP-MW-14R | APCO_Gorgas_AshPond | 2/28/2022 | 15:33 | | | GW | G | 1 | X | X | X | X | | |
| 4 | BC04390 | MW-13R | APCO-GS-AP-MW-13R | APCO_Gorgas_AshPond | 3/1/2022 | 8:34 | | | GW | G | 1 | X | X | X | X | | |
| 5 | BC04391 | MW-10R | APCO-GS-AP-MW-10R | APCO_Gorgas_AshPond | 3/1/2022 | 12:07 | | | GW | G | 1 | X | X | X | X | | |
| 6 | | | | | | | | | | | | | | | | | |
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ADDITIONAL COMMENTS
 RELINQUISHED BY / AFFILIATION: Laura Midkiff / APC GTL
 DATE: 3/2/2022
 TIME: 8:40

ACCEPTED BY / AFFILIATION: *[Signature]*
 DATE: 3-4-22
 TIME: 7:45

SAMPLE CONDITIONS
 Received on: []
 Custody (Y/N): []
 Sealed (Y/N): []
 Cooler (Y/N): []
 Intact (Y/N): []

TEMP in C: []

SAMPLER NAME AND SIGNATURE: []
 PRINT Name of SAMPLER: []
 SIGNATURE of SAMPLER: []

DALLAS GENTRY
 DATE Signed: []

WO#: 30470864
 PM: AES Due Date: 03/25/22
 CLIENT: ALABAMA PWR

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | | | | |
|-------------------------------------|--|--------------------------------------|---------------------------------|-----------------------------|----------------------|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | Report To: Laura Midkiff | Report To: Laura Midkiff | Company Name: Alabama Power Co. | Attention: Laura Midkiff | Regulatory Agency: |
| Address: 744 Highway 87 GSC Bldg #8 | Copy To: Brooke Caton & Renee Jernigan | Address: 744 Highway 87 GSC Bldg #8 | Address: CCR | Address: Alexis Ozoroski | State / Location: AL |
| Calera, AL 35040 | Purchase Order #: APC10755638 | Project Name: Plant Gorgas Ash Pond | Pace Profile #: 13805 | | |
| Email To: lbmidkiff@southernco.com | Project Number: WNWGORAP_1350 | | | | |
| Phone: 205-664-6197 Fax: Normal | | | | | |
| Requested Due Date: Normal | | | | | |

| ITEM # | Description | Station Name Location_Code | Site Name Facility_ID | COLLECTED | | # OF CONTAINERS | Preservatives | Requested Analysis Filtered (Y/N) | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) |
|--------|-------------|-------------------------------|--------------------------|-----------|-------|-----------------|----------------|-----------------------------------|----------|----------|------------------|---------------|-------------------------|
| | | | | DATE | TIME | | | | | | | | |
| 1 | MW-12 | APCO-GS-AP-MW-12 | APCO_Gorgas_AshPond | 2/28/2022 | 14:40 | 1 | HNO3 | X | X | X | | | |
| 2 | MW-09R | APCO-GS-AP-MW-09R | APCO_Gorgas_AshPond | 3/1/2022 | 12:04 | 1 | NaOH+ZnAcetate | X | X | X | | | |
| 3 | EB-1 | APCO-GS-AP-EB-1 | APCO_Gorgas_AshPond | 3/1/2022 | 12:30 | 1 | Unpreserved | X | X | X | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|--------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | <i>[Signature]</i> | 3-4-22 | 9:45 | N Y Y |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: TJ DAUGHERTY

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: 03/25/22

WO# : 30470864

PM: AES Due Date: 03/25/22

CLIENT: ALABAMA PWR

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Company Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5557 2008 9852

| |
|-------------------------|
| Label <u>JA</u> |
| LIMS Login <u>VPJoc</u> |

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

| Comments: | pH paper Lot# <u>1002811</u> | | | Date and Initials of person examining contents: <u>3-8-22 JA</u> |
|---|-------------------------------------|-------------------------------------|-------------------------------------|--|
| | Yes | No | N/A | |
| Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. |
| Sampler Name & Signature on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. |
| Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. <u>038 - description - PB - 1 on sample</u> |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. |
| Short Hold Time Analysis (<72hr remaining): | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. |
| Correct Containers Used: -Pace Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. |
| Orthophosphate field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 12. |
| Hex Cr Aqueous sample field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 13. |
| Organic Samples checked for dechlorination: <u>3-8-22</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 14. |
| Filtered volume received for Dissolved tests | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. |
| All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. <u>pH 4.2</u> |
| All containers meet method preservation requirements. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>JA</u> Date/time of preservation: _____ Lot # of added preservative: _____ |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 17. |
| Trip Blank Present: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 18. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Rad Samples Screened < 0.5 mrem/hr | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>JA</u> Date: <u>3-8-22</u> Survey Meter SN: <u>1563</u> |

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____ Contacted By: _____
Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

MO#: 30470864
 PM: AES Due Date: 03/25/22
 CLIENT: ALABAMA PWR



Pace

WO#: 30470864

Count

PM: AES Due Date: 03/25/22

CLIENT: ALABAMA PWR

Client

Alabama Power Company

Site

Plant Gargas Ash Pond

Profile Number 16788

Notes 009 0.15, 0.23, 0.35 have 3 BPIN

| Sample Line Item | Matrix | AG1H | AG1S | AG1T | AG2U | AG3S | AG3U | AG5U | AG5T | BG1U | BG2U | BP1N | BP1U | BP2S | BP2U | BP3C | BP3N | BP3S | BP3U | DG9S | GCUB | VG9H | VG9T | VG9U | VOAK | WGFU | WGKU | ZPLC |
|------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
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| 12 | WT | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Container Codes

| Glass | |
|-------|----------------------------------|
| GJN | 1 Gallon Jug with HNO3 |
| AG5U | 100mL amber glass unpreserved |
| AG5T | 100mL amber glass Na Thiosulfate |
| GJN | 1 Gallon Jug |
| AG1S | 1L amber glass H2SO4 |
| AG1H | 1L amber glass HCl |
| AG1T | 1L amber glass Na Thiosulfate |
| BG1U | 1L clear glass unpreserved |
| AG3S | 250mL amber glass H2SO4 |
| AG3U | 250mL amber glass unpreserved |
| DG9S | 40mL amber VOA vial H2SO4 |
| VG9U | 40mL clear VOA vial |
| VG9T | 40mL clear VOA vial Na Thiosul |
| VG9H | 40mL clear VOA vial HCl |
| JGFU | 4oz amber wide jar |
| WGFU | 4oz wide jar unpreserved |
| BG2U | 500mL clear glass unpreserved |
| AG2U | 500mL amber glass unpreserved |
| WGKU | 8oz wide jar unpreserved |

| Plastic / Misc. | |
|-----------------|-------------------------------|
| GCUB | 1 Gallon Cubitainer |
| 12GN | 1/2 Gallon Cubitainer |
| SP5T | 120mL Coliform Na Thiosulfate |
| BP1N | 1L plastic HNO3 |
| BP1U | 1L plastic unpreserved |
| BP3S | 250mL plastic H2SO4 |
| BP3N | 250mL plastic HNO3 |
| BP3U | 250mL plastic unpreserved |
| BP3C | 250ml plastic NAOH |
| BP2S | 500mL plastic H2SO4 |
| BP2U | 500mL plastic unpreserved |
| EZI | 5g Encore |
| VOAK | Kit for Volatile Solid |
| I | Wipe/Swab |
| ZPLC | Ziploc Bag |
| WT | Water |
| SL | Solid |
| OL | Non-aqueous liquid |
| WP | Wipe |

CHAIN-OF-CUSTODY / Analytical Request Document

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| | | | |
|--|--|---------------------------------------|-------------------|
| Section A | Section B | Section C | |
| Required Client Information: | Required Project Information: | Invoice Information: | Page : 1 Of 13 |
| Company: Alabama Power Company | Report To: Laura Midkiff | Attention: Laura Midkiff | |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: Brooke Caton & Renee Jernigan | Company Name: Alabama Power Co. | |
| Email To: lbmidkif@southernco.com | Purchase Order #: APC10755638 | Address: 744 Highway 87 GSC Bldg #8 | Regulatory Agency |
| Phone: 205-664-6197 Fax: | Project Name: Plant Gorgas Ash Pond | Pace Quote: CCR | State / Location |
| Requested Due Date: Normal | Project Number: WMWGORAP_1350 | Pace Project Manager: Alexis Ozoroski | AL |
| | | Pace Profile #: 13805 | |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | |
|--------|--|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|--|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC02839 | MW-7 | APCO-GS-AP-MW-7 | APCO_Gorgas_AshPond | | | | GW | G | 2/8/2022 | 11:20 | 1 | | X | | | X | X | X | | | | | |
| 2 | BC02840 | MW-7 DIS | APCO-GS-AP-MW-7 | APCO_Gorgas_AshPond | | | X | GW | G | 2/8/2022 | 11:20 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC02841 | MW-41HS | APCO-GS-AP-MW-41HS | APCO_Gorgas_AshPond | | | | GW | G | 2/8/2022 | 14:43 | 1 | | X | | | X | X | X | | | | | |
| 4 | BC02842 | MW-6V | APCO-GS-AP-MW-6V | APCO_Gorgas_AshPond | | | | GW | G | 2/9/2022 | 12:00 | 1 | | X | | | X | X | X | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
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| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| TJ DAUGHERTY | | | | | |
| SIGNATURE of SAMPLER: | | DATE Signed: | | | |

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Section B

Section C

| | | | | | |
|--|--|--|--|--|--|
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | | Report To: Laura Midkiff | | Attention: Laura Midkiff | |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | | Copy To: Brooke Caton & Renee Jernigan | | Company Name: Alabama Power Co. | |
| Email To: lbmidkif@southernco.com | | Purchase Order #: APC10755638 | | Address: 744 Highway 87 GSC Bldg #8 | |
| Phone: 205-664-6197 Fax: | | Project Name: Plant Gorgas Ash Pond | | Pace Quote: CCR | |
| Requested Due Date: Normal | | Project Number: WMWGORAP_1350 | | Pace Project Manager: Alexis.Ozoroski@pacelabs.com | |
| | | | | Pace Profile #: 13805 | |

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|-------------------|
| Regulatory Agency |
| State / Location |
| AL |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | |
|--------|--|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|--|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | UNPRESERVED | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC02843 | MW-30HA | APCO-GS-AP-MW-30HA | APCO_Gorgas_AshPond | | | | GW | G | 2/8/2022 | 9:36 | 1 | | X | | | X | X | X | | | | | |
| 2 | BC02844 | MW-21 | APCO-GS-AP-MW-21 | APCO_Gorgas_AshPond | | | | GW | G | 2/8/2022 | 11:11 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC02845 | MW-21V | APCO-GS-AP-MW-21V | APCO_Gorgas_AshPond | | | | GW | G | 2/8/2022 | 13:38 | 1 | | X | | | X | X | X | | | | | |
| 4 | BC02846 | MW-31H | APCO-GS-AP-MW-31H | APCO_Gorgas_AshPond | | | | GW | G | 2/8/2022 | 16:04 | 1 | | X | | | X | X | X | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
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| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: | | | | | |

DALLAS GENTRY
DATE Signed:

CHAIN-OF-CUSTODY / Analytical Request Document

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|--|--|---|------------------------------|
| Section A | Section B | Section C | |
| Required Client Information: | Required Project Information: | Invoice Information: | Page : 3 Of 13 |
| Company: Alabama Power Company | Report To: Laura Midkiff | Attention: Laura Midkiff | |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: Brooke Caton & Renee Jernigan | Company Name: Alabama Power Co. | |
| Email To: lbmidkif@southernco.com | Purchase Order #: APC10755638 | Address: 744 Highway 87 GSC Bldg #8 | Regulatory Agency |
| Phone: 205-664-6197 Fax: | Project Name: Plant Gorgas Ash Pond | Pace Quote: CCR | State / Location |
| Requested Due Date: Normal | Project Number: WMWGORAP_1350 | Pace Project Manager: Alexis Ozoroski | AL |
| | | Pace Profile #: 13805 | |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | |
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| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC03250 | PZ-22 | APCO-GS-AP-PZ-22 | APCO_Gorgas_AshPond | | X | | GW | G | 2/14/2022 | 10:21 | 3 | | X | | | X | X | X | | | | | |
| 2 | BC03251 | MW-17 | APCO-GS-AP-MW-17 | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 11:42 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC03252 | MW-17V | APCO-GS-AP-MW-17V | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 12:54 | 1 | | X | | | X | X | X | | | | | |
| 4 | BC03253 | MW-36H | APCO-GS-AP-MW-36H | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 15:28 | 1 | | X | | | X | X | X | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
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|-----------------------------------|--|--------------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: | | | | | |
| DALLAS GENTRY | | | | | |
| | | DATE Signed: | | | |

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| Section A | Section B | Section C | |
| Required Client Information: | Required Project Information: | Invoice Information: | Page : 4 Of 13 |
| Company: Alabama Power Company | Report To: Laura Midkiff | Attention: Laura Midkiff | |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: Brooke Caton & Renee Jernigan | Company Name: Alabama Power Co. | |
| Email To: lbmidkif@southernco.com | Purchase Order #: APC10755638 | Address: 744 Highway 87 GSC Bldg #8 | Regulatory Agency |
| Phone: 205-664-6197 Fax: | Project Name: Plant Gorgas Ash Pond | Pace Quote: CCR | State / Location |
| Requested Due Date: Normal | Project Number: WMWGORAP_1350 | Pace Project Manager: Alexis Ozoroski | AL |
| | | Pace Profile #: 13805 | |

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|--------|---|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|--|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC03254 | MW-6S | APCO-GS-AP-MW-6S | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 11:18 | 1 | | X | | | X | X | X | | | | | |
| 2 | BC03255 | MW-6S DUP | APCO-GS-AP-MW-6S | APCO_Gorgas_AshPond | X | | | GW | G | 2/14/2022 | 11:18 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC03256 | MW-6D | APCO-GS-AP-MW-6D | APCO_Gorgas_AshPond | | X | | GW | G | 2/14/2022 | 12:34 | 3 | | X | | | X | X | X | | | | | |
| 4 | BC03257 | MW-23H | APCO-GS-AP-MW-23H | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 13:47 | 1 | | X | | | X | X | X | | | | | |
| 5 | BC03258 | MW-23H DUP | APCO-GS-AP-MW-23H | APCO_Gorgas_AshPond | X | | | GW | G | 2/14/2022 | 13:47 | 1 | | X | | | X | X | X | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
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| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: | | | | | |
| TJ DAUGHERTY | | | | | |
| | | DATE Signed: | | | |

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Section B

Section C

| | | | | | |
|--|--|--|--|---------------------------------------|--|
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| Email To: lbmidkif@southernco.com | | Purchase Order #: APC10755638 | | Address: 744 Highway 87 GSC Bldg #8 | |
| Phone: 205-664-6197 Fax: | | Project Name: Plant Gorgas Ash Pond | | Pace Quote: CCR | |
| Requested Due Date: Normal | | Project Number: WMWGORAP_1350 | | Pace Project Manager: Alexis Ozoroski | |
| | | | | Pace Profile #: 13805 | |

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| Regulatory Agency |
| State / Location |
| AL |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | |
|--------|---|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|--|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | UNPRESERVED | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC03259 | MW-28H | APCO-GS-AP-MW-28H | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 12:42 | 1 | | X | | | X | X | X | | | | | |
| 2 | BC03260 | MW-28H DUP | APCO-GS-AP-MW-28H | APCO_Gorgas_AshPond | X | | | GW | G | 2/14/2022 | 12:42 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC03261 | MW-29H | APCO-GS-AP-MW-29H | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 14:30 | 1 | | X | | | X | X | X | | | | | |
| 4 | BC03262 | FB-3 | APCO-GS-AP-FB-03 | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 15:10 | 1 | | X | | | X | X | X | | | | | |
| 5 | BC03263 | MW-32H | APCO-GS-AP-MW-32H | APCO_Gorgas_AshPond | | | | GW | G | 2/14/2022 | 15:45 | 1 | | X | | | X | X | X | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
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| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: Anthony Goggins | | | | | |
| DATE Signed: | | | | | |

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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|--|--|---------------------------------------|-------------------|
| Section A | Section B | Section C | |
| Required Client Information: | Required Project Information: | Invoice Information: | Page : 6 Of 13 |
| Company: Alabama Power Company | Report To: Laura Midkiff | Attention: Laura Midkiff | |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: Brooke Caton & Renee Jernigan | Company Name: Alabama Power Co. | |
| Email To: lbmidkif@southernco.com | Purchase Order #: APC10755638 | Address: 744 Highway 87 GSC Bldg #8 | Regulatory Agency |
| Phone: 205-664-6197 Fax: | Project Name: Plant Gorgas Ash Pond | Pace Quote: CCR | State / Location |
| Requested Due Date: Normal | Project Number: WMWGORAP_1350 | Pace Project Manager: Alexis Ozoroski | AL |
| | | Pace Profile #: 13805 | |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | |
|--------|--|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|--|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | UNPRESERVED | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC03539 | PZ-16 | APCO-GS-AP-PZ-16 | APCO_Gorgas_AshPond | | X | | GW | G | 2/15/2022 | 11:08 | 3 | | X | | | X | X | X | | | | | |
| 2 | BC03540 | MW-16D | APCO-GS-AP-MW-16D | APCO_Gorgas_AshPond | | | | GW | G | 2/15/2022 | 12:48 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC03541 | MW-16S | APCO-GS-AP-MW-16S | APCO_Gorgas_AshPond | | | | GW | G | 2/15/2022 | 13:52 | 1 | | X | | | X | X | X | | | | | |
| 4 | BC03542 | FB-2 | APCO-GS-AP-FB-02 | APCO_Gorgas_AshPond | | | | GW | G | 2/15/2022 | 14:45 | 1 | | X | | | X | X | X | | | | | |
| 5 | BC03543 | MW-15 | APCO-GS-AP-MW-15 | APCO_Gorgas_AshPond | | | | GW | G | 2/16/2022 | 10:39 | 1 | | X | | | X | X | X | | | | | |
| 6 | BC03544 | MW-15V | APCO-GS-AP-MW-15V | APCO_Gorgas_AshPond | | | | GW | G | 2/16/2022 | 11:45 | 1 | | X | | | X | X | X | | | | | |
| 7 | BC03545 | MW-25HA | APCO-GS-AP-MW-25HA | APCO_Gorgas_AshPond | | | | GW | G | 2/16/2022 | 13:22 | 1 | | X | | | X | X | X | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
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| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: | | | | | |
| Dallas Gentry | | | | | |
| | | DATE Signed: | | | |

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Section B

Section C

| | | | | | |
|--|--|--|--|---------------------------------------|--|
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | | Report To: Laura Midkiff | | Attention: Laura Midkiff | |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | | Copy To: Brooke Caton & Renee Jernigan | | Company Name: Alabama Power Co. | |
| Email To: lbmidkif@southernco.com | | Purchase Order #: APC10755638 | | Address: 744 Highway 87 GSC Bldg #8 | |
| Phone: 205-664-6197 Fax: | | Project Name: Plant Gorgas Ash Pond | | Pace Quote: CCR | |
| Requested Due Date: Normal | | Project Number: WMWGORAP_1350 | | Pace Project Manager: Alexis Ozoroski | |
| | | | | Pace Profile #: 13805 | |

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| Regulatory Agency |
| State / Location |
| AL |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | |
|--------|--|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|--|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC03546 | MW-41HD | APCO-GS-AP-MW-41HD | APCO_Gorgas_AshPond | | | | GW | G | 2/15/2022 | 9:25 | 1 | | X | | | X | X | X | | | | | |
| 2 | BC03547 | MW-24H | APCO-GS-AP-MW-24H | APCO_Gorgas_AshPond | | | | GW | G | 2/15/2022 | 10:37 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC03548 | MW-24H DUP | APCO-GS-AP-MW-24H | APCO_Gorgas_AshPond | X | | | GW | G | 2/15/2022 | 10:37 | 1 | | X | | | X | X | X | | | | | |
| 4 | BC03549 | MW-40H | APCO-GS-AP-MW-40H | APCO_Gorgas_AshPond | | | | GW | G | 2/15/2022 | 12:25 | 1 | | X | | | X | X | X | | | | | |
| 5 | BC03550 | MW-26H | APCO-GS-AP-MW-26H | APCO_Gorgas_AshPond | | | | GW | G | 2/15/2022 | 14:13 | 1 | | X | | | X | X | X | | | | | |
| 6 | BC03551 | MW-42H | APCO-GS-AP-MW-42H | APCO_Gorgas_AshPond | | X | | GW | G | 2/16/2022 | 10:43 | 3 | | X | | | X | X | X | | | | | |
| 7 | BC03552 | MW-8 | APCO-GS-AP-MW-8 | APCO_Gorgas_AshPond | | | | GW | G | 2/16/2022 | 12:14 | 1 | | X | | | X | X | X | | | | | |
| 8 | BC03553 | MW-3 | APCO-GS-AP-MW-3 | APCO_Gorgas_AshPond | | | | GW | G | 2/16/2022 | 14:57 | 1 | | X | | | X | X | X | | | | | |
| 9 | BC03554 | FB-1 | APCO-GS-AP-FB-01 | APCO_Gorgas_AshPond | | | | GW | G | 2/16/2022 | 15:50 | 1 | | X | | | X | X | X | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
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| SAMPLER NAME AND SIGNATURE | | TEMP in C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N) |
| PRINT Name of SAMPLER: TJ DAUGHERTY | | |
| SIGNATURE of SAMPLER: | DATE Signed: | |

CHAIN-OF-CUSTODY / Analytical Request Document

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Section B

Section C

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| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | | Copy To: Brooke Caton & Renee Jernigan | | Company Name: Alabama Power Co. | |
| Email To: lbmidkif@southernco.com | | Purchase Order #: APC10755638 | | Address: 744 Highway 87 GSC Bldg #8 | |
| Phone: 205-664-6197 Fax: | | Project Name: Plant Gorgas Ash Pond | | Pace Quote: CCR | |
| Requested Due Date: Normal | | Project Number: WMWGORAP_1350 | | Pace Project Manager: Alexis Ozoroski | |
| | | | | Pace Profile #: 13805 | |

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| Regulatory Agency |
| State / Location |
| AL |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | |
|--------|---|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|--|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | UNPRESERVED | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC03974 | MW-43H | APCO-GS-AP-MW-43H | APCO_Gorgas_AshPond | | | | GW | G | 2/21/2022 | 11:43 | 1 | | X | | | X | X | X | | | | | |
| 2 | BC03975 | PZ-18R | APCO-GS-AP-PZ-18R | APCO_Gorgas_AshPond | | | | GW | G | 2/21/2022 | 14:40 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC03976 | MW-36V | APCO-GS-AP-MW-36V | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 10:06 | 1 | | X | | | X | X | X | | | | | |
| 4 | BC03977 | MW-27HR | APCO-GS-AP-MW-27HR | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 12:03 | 1 | | X | | | X | X | X | | | | | |
| 5 | BC03978 | FB-6 | APCO-GS-AP-FB-06 | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 12:40 | 1 | | X | | | X | X | X | | | | | |
| 6 | BC03979 | MW-18R | APCO-GS-AP-MW-18R | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 13:42 | 1 | | X | | | X | X | X | | | | | |
| 7 | BC03980 | MW-18R DUP | APCO-GS-AP-MW-18R | APCO_Gorgas_AshPond | X | | | GW | G | 2/22/2022 | 13:42 | 1 | | X | | | X | X | X | | | | | |
| 8 | BC03981 | MW-18VR | APCO-GS-AP-MW-18VR | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 15:15 | 1 | | X | | | X | X | X | | | | | |
| 9 | BC03982 | MW-45V | APCO-GS-AP-MW-45V | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 11:29 | 1 | | X | | | X | X | X | | | | | |
| 10 | BC03983 | MW-03V | APCO-GS-AP-MW-3V | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 12:49 | 1 | | X | | | X | X | X | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
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| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
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| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: | | | | | |

DALLAS GENTRY
DATE Signed:

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Section B

Section C

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| Email To: lbmidkif@southernco.com | | Purchase Order #: APC10755638 | | Address: 744 Highway 87 GSC Bldg #8 | |
| Phone: 205-664-6197 Fax: | | Project Name: Plant Gorgas Ash Pond | | Pace Quote: CCR | |
| Requested Due Date: Normal | | Project Number: WMWGORAP_1350 | | Pace Project Manager: Alexis Orozski | |
| | | | | Pace Profile #: 13805 | |

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| Regulatory Agency |
| State / Location |
| AL |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | |
|--------|--|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|----------|----------|------------------|---------------|-------------------------|--|--|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | | |
| | | | | | | | | | | | | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC03984 | MW-9V | APCO-GS-AP-MW-9V | APCO_Gorgas_AshPond | | | | GW | G | 2/21/2022 | 12:08 | 1 | | X | | | X | X | X | | | | | |
| 2 | BC03985 | MW-38H | APCO-GS-AP-MW-38H | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 9:35 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC03986 | MW-19 | APCO-GS-AP-MW-19 | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 11:18 | 1 | | X | | | X | X | X | | | | | |
| 4 | BC03987 | MW-19 DUP | APCO-GS-AP-MW-19 | APCO_Gorgas_AshPond | X | | | GW | G | 2/22/2022 | 11:18 | 1 | | X | | | X | X | X | | | | | |
| 5 | BC03988 | MW-2 | APCO-GS-AP-MW-2 | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 13:17 | 1 | | X | | | X | X | X | | | | | |
| 6 | BC03989 | MW-12V | APCO-GS-AP-MW-12V | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 12:33 | 1 | | X | | | X | X | X | | | | | |
| 7 | BC03990 | FB-5 | APCO-GS-AP-FB-05 | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 13:30 | 1 | | X | | | X | X | X | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
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| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: | | | | | |

TJ DAUGHERTY

DATE Signed:

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| Email To: lbmidkif@southernco.com | Purchase Order #: APC10755638 | Pace Project Manager: Alexis Ozoroski | Pace Profile #: 13805 | | |
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| Requested Due Date: Normal | Project Number: WMWGORAP_1350 | | | | |

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| Regulatory Agency |
| State / Location |
| AL |

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|--------|--|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|--|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | UNPRESERVED | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC03991 | MW-31V | APCO-GS-AP-MW-31V | APCO_Gorgas_AshPond | | | | GW | G | 2/22/2022 | 13:07 | 1 | | X | | | X | X | X | | | | | |
| 2 | BC03992 | MW-46 | APCO-GS-AP-MW-46 | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 10:30 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC03993 | FB-4 | APCO-GS-AP-FB-04 | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 11:00 | 1 | | X | | | X | X | X | | | | | |
| 4 | BC03994 | MW-23V | APCO-GS-AP-MW-23V | APCO_Gorgas_AshPond | | | | GW | G | 2/23/2022 | 13:33 | 1 | | X | | | X | X | X | | | | | |
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| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
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| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: | | | | | |
| ANTHONY GOGGINS | | | | | |
| | | DATE Signed: | | | |

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|--------|---|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|--|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | | | | |
| 1 | BC04387 | MW-37HR | APCO-GS-AP-MW-37HR | APCO_Gorgas_AshPond | | | | GW | G | 2/28/2022 | 12:20 | 1 | | X | | | X | X | X | | | | | |
| 2 | BC04388 | MW-47 | APCO-GS-AP-MW-47 | APCO_Gorgas_AshPond | | | | GW | G | 2/28/2022 | 14:12 | 1 | | X | | | X | X | X | | | | | |
| 3 | BC04389 | MW-14R | APCO-GS-AP-MW-14R | APCO_Gorgas_AshPond | | | | GW | G | 2/28/2022 | 15:33 | 1 | | X | | | X | X | X | | | | | |
| 4 | BC04390 | MW-13R | APCO-GS-AP-MW-13R | APCO_Gorgas_AshPond | | | | GW | G | 3/1/2022 | 8:34 | 1 | | X | | | X | X | X | | | | | |
| 5 | BC04391 | MW-10R | APCO-GS-AP-MW-10R | APCO_Gorgas_AshPond | | | | GW | G | 3/1/2022 | 12:07 | 1 | | X | | | X | X | X | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
| | | | | | | | |
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|-----------------------------------|--|--------------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: | | | | | |
| DALLAS GENTRY | | | | | |
| | | DATE Signed: | | | |

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Section B

Section C

| | | | | | |
|--|--|---------------------------------------|---------------------------------|-----------------------------|--|
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | Report To: Laura Midkiff | Attention: Laura Midkiff | Company Name: Alabama Power Co. | | |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: Brooke Caton & Renee Jernigan | Address: 744 Highway 87 GSC Bldg #8 | | | |
| Email To: lbmidkif@southernco.com | Purchase Order #: APC10755638 | Pace Quote: CCR | | | |
| Phone: 205-664-6197 Fax: | Project Name: Plant Gorgas Ash Pond | Pace Project Manager: Alexis Ozoroski | | | |
| Requested Due Date: Normal | Project Number: WMWGORAP_1350 | Pace Profile #: 13805 | | | |

| |
|--------------------------|
| Regulatory Agency |
| State / Location |
| AL |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Requested Analysis Filtered (Y/N) | | | | Residual Chlorine (Y/N) | | | | | | | |
|--------|---|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-----------|-----------------|-----------------------------------|----------------|------|---------------|-------------------------|----------|----------|------------------|---------------|-----|--|--|
| | | | | | | | | | | DATE | TIME | | Unpreserved | Preservatives | | Analyses Test | | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | | | |
| | | | | | | | | | | | | | | NaOH+ZnAcetate | HNO3 | | | | | | | Y/N | | |
| 1 | BC04392 | MW-12 | APCO-GS-AP-MW-12 | APCO_Gorgas_AshPond | | | | | GW | G | 2/28/2022 | 14:40 | 1 | | X | | | X | X | X | | | | |
| 2 | BC04393 | MW-09R | APCO-GS-AP-MW-09R | APCO_Gorgas_AshPond | | | | | GW | G | 3/1/2022 | 12:04 | 1 | | X | | | X | X | X | | | | |
| 3 | BC04394 | EB-1 | APCO-GS-AP-EB-1 | APCO_Gorgas_AshPond | | | | | GW | G | 3/1/2022 | 12:30 | 1 | | X | | | X | X | X | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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|-----------------------------------|--|-----------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: | | | | | |

TJ DAUGHERTY

DATE Signed:

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Section B

Section C

| | | | | | |
|--|-------------------------------------|--|--|---------------------------------------|--|
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | Report To: Laura Midkiff | Attention: Laura Midkiff | | Company Name: Alabama Power Co. | |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | | Copy To: Brooke Caton & Renee Jernigan | | Address: 744 Highway 87 GSC Bldg #8 | |
| Email To: lmidkif@southernco.com | Purchase Order #: APC10755638 | Pace Quote: CCR | | Pace Project Manager: Alexis Ozoroski | |
| Phone: 205-664-6197 Fax: | Project Name: Plant Gorgas Ash Pond | Pace Profile #: 13805 | | Regulatory Agency | |
| Requested Due Date: Normal | Project Number: WMWGORAP_1350 | | | State / Location | |
| | | | | AL | |

| ITEM # | SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | |
|--------|---|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------------------------|---------------|----------------|------|---------------|----------|----------|------------------|---------------|-------------------------|-----|--|
| | | | | | | | | | | DATE | TIME | # OF CONTAINERS | Preservatives | | | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | | |
| | | | | | | | | | | | | | UNPRESERVED | NaOH+ZnAcetate | HNO3 | | | | | | | Y/N | |
| 1 | BC04395 | MW-01R | APCO-GS-AP-MW-01R | APCO_Gorgas_AshPond | | | | GW | G | 3/1/2022 | 8:54 | 1 | | X | | | X | X | X | | | | |
| 2 | BC04396 | MW-11R | APCO-GS-AP-MW-11R | APCO_Gorgas_AshPond | | | | GW | G | 3/1/2022 | 11:20 | 1 | | X | | | X | X | X | | | | |
| 3 | BC04397 | MW-05R | APCO-GS-AP-MW-05R | APCO_Gorgas_AshPond | | | | GW | G | 3/1/2022 | 13:34 | 1 | | X | | | X | X | X | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | |
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| 9 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|------|------|-------------------|
| | Laura Midkiff/ APC GTL | 3/2/2022 | 8:40 | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | | | | | |
|-----------------------------------|--|--------------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE | | TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | | | | | |
| SIGNATURE of SAMPLER: | | | | | |
| ANTHONY GOGGINS | | | | | |
| | | DATE Signed: | | | |



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: JSM
Date: 3/29/2022
Worklist: 65664
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Method Blank Assessment | | |
|-------------------------------------|---------|--|
| MB Sample ID | 2378699 | |
| MB concentration: | 0.492 | |
| M/B 2 Sigma CSU: | 0.352 | |
| MB MDC: | 0.677 | |
| MB Numerical Performance Indicator: | 2.74 | |
| MB Status vs Numerical Indicator: | Warning | |
| MB Status vs. MDC: | Pass | |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | N |
|---|----------------|-----------------|
| | | LCS65664 |
| Count Date: | 3/31/2022 | |
| Spike I.D.: | 22-016 | |
| Decay Corrected Spike Concentration (pCi/mL): | 36.277 | |
| Volume Used (mL): | 0.10 | |
| Aliquot Volume (L, g, F): | 0.808 | |
| Target Conc. (pCi/L, g, F): | 4.489 | |
| Uncertainty (Calculated): | 0.220 | |
| Result (pCi/L, g, F): | 3.707 | |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.903 | |
| Numerical Performance Indicator: | -1.65 | |
| Percent Recovery: | 82.58% | |
| Status vs Numerical Indicator: | N/A | |
| Status vs Recovery: | Pass | |
| Upper % Recovery Limits: | 135% | |
| Lower % Recovery Limits: | 60% | |

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|
| Sample Collection Date: | 2/14/2022 | |
| Sample I.D. | 30470864009 | |
| Sample MS I.D. | 30470864071 | |
| Sample MSD I.D. | 30470864072 | |
| Spike I.D.: | 22-016 | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 36.822 | |
| Spike Volume Used in MS (mL): | 0.20 | |
| Spike Volume Used in MSD (mL): | 0.20 | |
| MS Aliquot (L, g, F): | 0.817 | |
| MS Target Conc.(pCi/L, g, F): | 9.015 | |
| MSD Aliquot (L, g, F): | 0.813 | |
| MSD Target Conc. (pCi/L, g, F): | 9.063 | |
| MS Spike Uncertainty (calculated): | 0.442 | |
| MSD Spike Uncertainty (calculated): | 0.444 | |
| Sample Result: | 0.408 | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.355 | |
| Sample Matrix Spike Result: | 7.422 | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 1.539 | |
| Sample Matrix Spike Duplicate Result: | 6.717 | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.446 | |
| MS Numerical Performance Indicator: | -2.392 | |
| MSD Numerical Performance Indicator: | -3.475 | |
| MS Percent Recovery: | 77.80% | |
| MSD Percent Recovery: | 69.61% | |
| MS Status vs Numerical Indicator: | Warning | |
| MSD Status vs Numerical Indicator: | Fail**** | |
| MS Status vs Recovery: | Pass | |
| MSD Status vs Recovery: | Pass | |
| MS/MSD Upper % Recovery Limits: | 135% | |
| MS/MSD Lower % Recovery Limits: | 60% | |

| Duplicate Sample Assessment | | |
|--|--------------|---|
| Sample I.D.: | | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D.: | | |
| Sample Result (pCi/L, g, F): | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Duplicate Result (pCi/L, g, F): | | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | | |
| Are sample and/or duplicate results below RL? | See Below ## | |
| Duplicate Numerical Performance Indicator: | | |
| Duplicate RPD: | | |
| Duplicate Status vs Numerical Indicator: | | |
| Duplicate Status vs RPD: | | |
| % RPD Limit: | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
|--|-------------|--|
| Sample I.D. | 30470864009 | |
| Sample MS I.D. | 30470864071 | |
| Sample MSD I.D. | 30470864072 | |
| Sample Matrix Spike Result: | 7.422 | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 1.539 | |
| Sample Matrix Spike Duplicate Result: | 6.717 | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.446 | |
| Duplicate Numerical Performance Indicator: | 0.654 | |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 11.11% | |
| MS/MSD Duplicate Status vs Numerical Indicator: | Pass | |
| MS/MSD Duplicate Status vs RPD: | Pass | |
| % RPD Limit: | 36% | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: VAL
Date: 3/31/2022
Worklist: 65666
Matrix: W1

Method Blank Assessment

MB Sample ID: 2378751
 MB concentration: 0.103
 MB 2 Sigma CSU: 0.303
 MB MDC: 0.681
 MB Numerical Performance Indicator: 0.67
 MB Status vs Numerical Indicator: Pass
 MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

| LCS (Y or N)? | N |
|---------------|-----------|
| LCS65666 | LCS065666 |

Count Date: 4/5/2022
 Spike I.D.: 22-016
 Decay Corrected Spike Concentration (pCi/mL): 36.217
 Volume Used (mL): 0.10
 Aliquot Volume (L, g, F): 0.820
 Target Conc. (pCi/L, g, F): 4.415
 Uncertainty (Calculated): 0.216
 Result (pCi/L, g, F): 3.641
 LCS/LCSD 2 Sigma CSU (pCi/L, g, F): 0.870
 Numerical Performance Indicator: -1.69
 Percent Recovery: 82.47%
 Status vs Numerical Indicator: N/A
 Status vs Recovery: Pass
 Upper % Recovery Limits: 135%
 Lower % Recovery Limits: 60%

Duplicate Sample Assessment

Sample I.D.:
 Duplicate Sample I.D.:
 Duplicate Result (pCi/L, g, F):
 Sample Result 2 Sigma CSU (pCi/L, g, F):
 Sample Duplicate Result (pCi/L, g, F):
 Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
 Are sample and/or duplicate results below RL?
 Duplicate Numerical Performance Indicator:
 Duplicate RPD:
 Duplicate Status vs Numerical Indicator:
 Duplicate Status vs RPD:
 % RPD Limit:

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

See Below ##

Sample Matrix Spike Control Assessment

Sample Collection Date:
 Sample I.D.:
 Sample MS I.D.:
 Sample MSD I.D.:

MS/MSD 1
 2/14/2022
 30470864015
 30470864073
 30470864074

Spike I.D.:
 22-016
 36.821

MS/MSD Decay Corrected Spike Concentration (pCi/mL):
 Spike Volume Used in MS (mL):
 Spike Volume Used in MSD (mL):
 MS Aliquot (L, g, F):
 MS Target Conc. (pCi/L, g, F):
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F):
 MS Spike Uncertainty (calculated):
 MSD Spike Uncertainty (calculated):

MS/MSD 2
 214/2022
 0864015
 0864073
 0864074

0.20
 0.20
 0.829
 8.888
 0.819
 8.987
 0.435
 0.440

Sample Result:
 Sample Result 2 Sigma CSU (pCi/L, g, F):
 Sample Matrix Spike Result:
 Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
 MS Numerical Performance Indicator:
 MSD Numerical Performance Indicator:
 MS Percent Recovery:
 MSD Percent Recovery:
 MS Status vs Numerical Indicator:
 MSD Status vs Numerical Indicator:
 MS Status vs Recovery:
 MSD Status vs Recovery:
 MS/MSD Upper % Recovery Limits:
 MS/MSD Lower % Recovery Limits:

1.028
 0.456
 9.738
 2.179
 7.543
 1.611
 -0.154
 -2.799
 98.00%
 72.49%
 Pass
 Warning
 Pass
 Pass
 135%
 60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
 Sample MS I.D.:
 Sample MSD I.D.:

MS/MSD 1
 30470864015
 30470864073
 30470864074

Spike I.D.:
 22-016
 36.821

MS/MSD Decay Corrected Spike Concentration (pCi/mL):
 Spike Volume Used in MS (mL):
 Spike Volume Used in MSD (mL):
 MS Aliquot (L, g, F):
 MS Target Conc. (pCi/L, g, F):
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F):
 MS Spike Uncertainty (calculated):
 MSD Spike Uncertainty (calculated):

MS/MSD 2
 214/2022
 0864015
 0864073
 0864074

0.20
 0.20
 0.829
 8.888
 0.819
 8.987
 0.435
 0.440

Sample Result:
 Sample Result 2 Sigma CSU (pCi/L, g, F):
 Sample Matrix Spike Result:
 Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
 MS Numerical Performance Indicator:
 MSD Numerical Performance Indicator:
 MS Percent Recovery:
 MSD Percent Recovery:
 MS Status vs Numerical Indicator:
 MSD Status vs Numerical Indicator:
 MS Status vs Recovery:
 MSD Status vs Recovery:
 MS/MSD Upper % Recovery Limits:
 MS/MSD Lower % Recovery Limits:

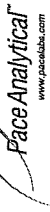
1.028
 0.456
 9.738
 2.179
 7.543
 1.611
 -0.154
 -2.799
 98.00%
 72.49%
 Pass
 Warning
 Pass
 Pass
 135%
 60%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: *2/24/2022*

2/24/2022

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JSM
Date: 3/31/2022
Worklist: 65667
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2378754 |
| MB concentration: | 0.034 |
| M/B 2 Sigma CSU: | 0.180 |
| MB MDC: | 0.415 |
| MB Numerical Performance Indicator: | 0.37 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCS2 (Y or N)? | N |
|---|----------|----------------|-----------|
| Count Date: | 4/4/2022 | LCS265667 | LCS265667 |
| Spike I.D.: | 22-016 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 36.230 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.818 | | |
| Target Conc. (pCi/L, g, F): | 4.429 | | |
| Uncertainty (Calculated): | 0.217 | | |
| Result (pCi/L, g, F): | 4.679 | | |
| LCS/LCS2 2 Sigma CSU (pCi/L, g, F): | 1.002 | | |
| Numerical Performance Indicator: | 0.48 | | |
| Percent Recovery: | 105.65% | | |
| Status vs Numerical Indicator: | N/A | | |
| Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 135% | | |
| Lower % Recovery Limits: | 60% | | |

| Duplicate Sample Assessment | |
|--|---|
| Sample I.D.: | Enter Duplicate sample IDs if other than LCS/LCS2 in the space below. |
| Duplicate Sample I.D.: | |
| Sample Result (pCi/L, g, F): | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|----------|
| Sample Collection Date: | 2/16/2022 | | |
| Sample I.D.: | 30470864035 | | |
| Sample MS I.D.: | 30470864077 | | |
| Sample MSD I.D.: | 30470864078 | | |
| Spike I.D.: | 22-016 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 36.797 | | |
| Spike Volume Used in MS (mL): | 0.20 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.812 | | |
| MS Target Conc. (pCi/L, g, F): | 9.060 | | |
| MSD Aliquot (L, g, F): | 0.809 | | |
| MSD Target Conc. (pCi/L, g, F): | 9.098 | | |
| MS Spike Uncertainty (calculated): | 0.444 | | |
| MSD Spike Uncertainty (calculated): | 0.446 | | |
| Sample Result: | 0.151 | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.233 | | |
| Sample Matrix Spike Result: | 9.627 | | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 1.950 | | |
| Sample Matrix Spike Duplicate Result: | 11.585 | | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 2.281 | | |
| MS Numerical Performance Indicator: | 0.404 | | |
| MSD Numerical Performance Indicator: | 1.961 | | |
| MSD Percent Recovery: | 104.58% | | |
| MSD Status vs Numerical Indicator: | 125.68% | | |
| MS Status vs Numerical Indicator: | Pass | | |
| MSD Status vs Numerical Indicator: | Pass | | |
| MS Status vs Recovery: | Pass | | |
| MSD Status vs Recovery: | Pass | | |
| MS/MSD Upper % Recovery Limits: | 135% | | |
| MS/MSD Lower % Recovery Limits: | 60% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30470864035 |
| Sample MS I.D.: | 30470864077 |
| Sample MSD I.D.: | 30470864078 |
| Spike I.D.: | 22-016 |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 36.797 |
| Spike Volume Used in MS (mL): | 0.20 |
| Spike Volume Used in MSD (mL): | 0.20 |
| MS Aliquot (L, g, F): | 0.812 |
| MS Target Conc. (pCi/L, g, F): | 9.060 |
| MSD Aliquot (L, g, F): | 0.809 |
| MSD Target Conc. (pCi/L, g, F): | 9.098 |
| MS Spike Uncertainty (calculated): | 0.444 |
| MSD Spike Uncertainty (calculated): | 0.446 |
| Sample Result: | 0.151 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.233 |
| Sample Matrix Spike Result: | 9.627 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 1.950 |
| Sample Matrix Spike Duplicate Result: | 11.585 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 2.281 |
| MS Numerical Performance Indicator: | 0.404 |
| MSD Numerical Performance Indicator: | 1.961 |
| MSD Percent Recovery: | 104.58% |
| MSD Status vs Numerical Indicator: | 125.68% |
| MS Status vs Numerical Indicator: | Pass |
| MSD Status vs Numerical Indicator: | Pass |
| MS Status vs Recovery: | Pass |
| MSD Status vs Recovery: | Pass |
| MS/MSD Upper % Recovery Limits: | 135% |
| MS/MSD Lower % Recovery Limits: | 60% |

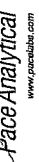
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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Handwritten date: 4/13/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJC2
Date: 3/18/2022
Worklist: 65579
Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2370684 |
| MB concentration: | 0.027 |
| MB Counting Uncertainty: | 0.055 |
| MB MDC: | 0.129 |
| MB Numerical Performance Indicator: | 0.95 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | |
|---|----------------|-----------|
| | LCSD65579 | LCSD65579 |
| Count Date: | 4/7/2022 | Y |
| Spike I.D.: | 19-033 | 4/7/2022 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.028 | 24.028 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.503 | 0.505 |
| Target Conc. (pCi/L, g, F): | 4.778 | 4.760 |
| Uncertainty (Calculated): | 0.057 | 0.057 |
| Result (pCi/L, g, F): | 4.717 | 5.342 |
| LCSD Counting Uncertainty (pCi/L, g, F): | 0.448 | 0.488 |
| Numerical Performance Indicator: | -0.26 | 2.32 |
| Percent Recovery: | 98.73% | 112.23% |
| Status vs Numerical Indicator: | N/A | N/A |
| Upper % Recovery Limits: | Pass | Pass |
| Lower % Recovery Limits: | 125% | 125% |
| | 75% | 75% |

| Duplicate Sample Assessment | |
|---|-----------|
| Sample I.D.: | LCSD65579 |
| Duplicate Sample I.D.: | LCSD65579 |
| Sample Result (pCi/L, g, F): | 4.717 |
| Sample Duplicate Result (pCi/L, g, F): | 0.448 |
| Sample Duplicate Result (pCi/L, g, F): | 5.342 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.488 |
| Are sample and/or duplicate results below RL? | NO |
| Duplicate Numerical Performance Indicator: | -1.851 |
| (Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD: | 12.80% |
| Duplicate Status vs Numerical Indicator: | N/A |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|
| Sample Collection Date: | 2/14/2022 | |
| Sample I.D.: | 30470864015 | |
| Sample MS I.D.: | 30470864073 | |
| Sample MSD I.D.: | 30470864074 | |
| Spike I.D.: | 19-033 | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.030 | |
| Spike Volume Used in MS (mL): | 0.20 | |
| Spike Volume Used in MSD (mL): | 0.20 | |
| MS Aliquot (L, g, F): | 0.252 | |
| MS Target Conc. (pCi/L, g, F): | 19.089 | |
| MSD Aliquot (L, g, F): | 0.250 | |
| MSD Target Conc. (pCi/L, g, F): | 19.188 | |
| MS Spike Uncertainty (calculated): | 0.229 | |
| MSD Spike Uncertainty (calculated): | 0.230 | |
| Sample Result: | 0.208 | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.165 | |
| Sample Matrix Spike Result: | 20.762 | |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 1.350 | |
| Sample Matrix Spike Duplicate Result: | 19.852 | |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.281 | |
| MS Numerical Performance Indicator: | 2.081 | |
| MSD Numerical Performance Indicator: | 0.880 | |
| MS Percent Recovery: | 107.67% | |
| MSD Percent Recovery: | 102.37% | |
| MS Status vs Numerical Indicator: | N/A | |
| MSD Status vs Numerical Indicator: | N/A | |
| MS Status vs Recovery: | Pass | |
| MSD Status vs Recovery: | Pass | |
| MS/MSD Upper % Recovery Limits: | 125% | |
| MS/MSD Lower % Recovery Limits: | 75% | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|--|-------------|
| Sample I.D.: | 30470864015 |
| Sample MS I.D.: | 30470864073 |
| Sample MSD I.D.: | 30470864074 |
| Sample Matrix Spike Result: | 20.762 |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 1.350 |
| Sample Matrix Spike Duplicate Result: | 19.852 |
| Sample Matrix Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.281 |
| Duplicate Numerical Performance Indicator: | 0.958 |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 5.05% |
| MS/MSD Duplicate Status vs Numerical Indicator: | N/A |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature/initials

Handwritten date: 3/11/22

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-226
Analyst: JC2
Date: 3/18/2022
Worklist: 65578
Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2370683 |
| MB concentration: | 0.009 |
| M/B Counting Uncertainty: | 0.058 |
| MB MDC: | 0.155 |
| MB Numerical Performance Indicator: | 0.29 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCS (Y or N)? | |
|---|---------------|-----------|
| | LCS65578 | LCS065578 |
| Count Date: | 4/7/2022 | 4/7/2022 |
| Spike I.D.: | 19-033 | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.028 | 24.028 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.514 | 0.503 |
| Target Conc. (pCi/L, g, F): | 4.670 | 4.780 |
| Uncertainty (Calculated): | 0.056 | 0.057 |
| Result (pCi/L, g, F): | 5.147 | 5.118 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.483 | 0.487 |
| Numerical Performance Indicator: | 1.92 | 1.35 |
| Percent Recovery: | 110.20% | 107.06% |
| Status vs Numerical Indicator: | N/A | N/A |
| Status vs Recovery: | Pass | Pass |
| Upper % Recovery Limits: | 125% | 125% |
| Lower % Recovery Limits: | 75% | 75% |

| Duplicate Sample Assessment | |
|---|-----------|
| Sample I.D.: | LCS65578 |
| Duplicate Sample I.D.: | LCS065578 |
| Sample Result (pCi/L, g, F): | 5.147 |
| Sample Duplicate Result (pCi/L, g, F): | 0.483 |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | 5.118 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.487 |
| Are sample and/or duplicate results below RL? | NO |
| Duplicate Numerical Performance Indicator: | 0.063 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 2.89% |
| Duplicate Status vs Numerical Indicator: | N/A |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|
| Sample Collection Date: | 2/14/2022 | |
| Sample I.D.: | 30470864009 | |
| Sample MS I.D.: | 30470864071 | |
| Sample MSD I.D.: | 30470864072 | |
| Spike I.D.: | 19-033 | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.030 | |
| Spike Volume Used in MS (mL): | 0.20 | |
| MS Aliquot (L, g, F): | 0.257 | |
| MS Target Conc. (pCi/L, g, F): | 18.736 | |
| MSD Aliquot (L, g, F): | 0.253 | |
| MSD Target Conc. (pCi/L, g, F): | 19.003 | |
| MS Spike Uncertainty (calculated): | 0.225 | |
| MSD Spike Uncertainty (calculated): | 0.228 | |
| Sample Result: | 0.262 | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.176 | |
| Sample Matrix Spike Result: | 20.412 | |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 1.326 | |
| Sample Matrix Spike Duplicate Result: | 21.945 | |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.416 | |
| MS Numerical Performance Indicator: | 2.043 | |
| MSD Numerical Performance Indicator: | 3.635 | |
| MS Percent Recovery: | 107.55% | |
| MSD Percent Recovery: | 114.10% | |
| MS Status vs Numerical Indicator: | N/A | |
| MSD Status vs Numerical Indicator: | N/A | |
| MS Status vs Recovery: | Pass | |
| MSD Status vs Recovery: | Pass | |
| MS/MSD Upper % Recovery Limits: | 125% | |
| MS/MSD Lower % Recovery Limits: | 75% | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30470864009 |
| Sample MS I.D.: | 30470864071 |
| Sample MSD I.D.: | 30470864072 |
| Sample Matrix Spike Result: | 20.412 |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 1.326 |
| Sample Matrix Spike Duplicate Result: | 21.945 |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.416 |
| Duplicate Numerical Performance Indicator: | -1.549 |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 5.91% |
| MS/MSD Duplicate Status vs Numerical Indicator: | N/A |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature and date: 3/11/22

Handwritten date: 3/11/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 3/18/2022
Worklist: 65580
Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2370685 |
| MB concentration: | -0.019 |
| MB Counting Uncertainty: | 0.033 |
| MB MDC: | 0.127 |
| MB Numerical Performance Indicator: | -1.11 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCSID (Y or N)? | Y |
|---|----------|-----------------|----------|
| Count Date: | 4/8/2022 | LCSID65580 | 4/8/2022 |
| Spike I.D.: | 19-033 | | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.028 | | 24.028 |
| Volume Used (mL): | 0.10 | | 0.10 |
| Aliquot Volume (L, g, F): | 0.501 | | 0.512 |
| Target Conc. (pCi/L, g, F): | 4.800 | | 4.691 |
| Uncertainty (Calculated): | 0.058 | | 0.056 |
| Result (pCi/L, g, F): | 5.429 | | 4.560 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.502 | | 0.435 |
| Numerical Performance Indicator: | 2.44 | | -0.59 |
| Percent Recovery: | 113.10% | | 97.21% |
| Status vs Numerical Indicator: | N/A | | N/A |
| Status vs Recovery: | Pass | | Pass |
| Upper % Recovery Limits: | 125% | | 125% |
| Lower % Recovery Limits: | 75% | | 75% |

| Duplicate Sample Assessment | |
|---|------------|
| Sample I.D.: | LCS65580 |
| Duplicate Sample I.D.: | LCSID65580 |
| Sample Result (pCi/L, g, F): | 5.429 |
| Sample Duplicate Result (pCi/L, g, F): | 0.502 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 4.560 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.435 |
| Are sample and/or duplicate results below RL? | NO |
| Duplicate Numerical Performance Indicator: | 2.564 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 15.12% |
| Duplicate Status vs Numerical Indicator: | N/A |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|----------|
| Sample Collection Date: | 2/15/2022 | | |
| Sample I.D.: | 30470864023 | | |
| Sample MS I.D.: | 30470864075 | | |
| Sample MSD I.D.: | 30470864076 | | |
| Spike I.D.: | 19-033 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.030 | | |
| Spike Volume Used in MS (mL): | 0.20 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.256 | | |
| MS Target Conc. (pCi/L, g, F): | 18.759 | | |
| MSD Aliquot (L, g, F): | 0.255 | | |
| MSD Target Conc. (pCi/L, g, F): | 18.884 | | |
| MS Spike Uncertainty (calculated): | 0.225 | | |
| MSD Spike Uncertainty (calculated): | 0.227 | | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.457 | | |
| Sample Matrix Spike Result: | 0.206 | | |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 16.336 | | |
| Sample Matrix Spike Duplicate Result: | 1.190 | | |
| Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): | 17.455 | | |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.241 | | |
| MS Numerical Performance Indicator: | -4.595 | | |
| MSD Numerical Performance Indicator: | -2.892 | | |
| MS Percent Recovery: | 84.65% | | |
| MSD Percent Recovery: | 90.02% | | |
| MS Status vs Numerical Indicator: | N/A | | |
| MSD Status vs Numerical Indicator: | N/A | | |
| MS Status vs Recovery: | Pass | | |
| MSD Status vs Recovery: | Pass | | |
| MS/MSD Upper % Recovery Limits: | 125% | | |
| MS/MSD Lower % Recovery Limits: | 75% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30470864023 |
| Sample MS I.D.: | 30470864075 |
| Sample MSD I.D.: | 30470864076 |
| Sample Matrix Spike Result: | 16.336 |
| Sample Matrix Spike Duplicate Result: | 1.190 |
| Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): | 17.455 |
| Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): | 1.241 |
| Duplicate Numerical Performance Indicator: | -1.277 |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 6.15% |
| MS/MSD Duplicate Status vs Numerical Indicator: | N/A |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten notes: *LA mul 11/22* and *FC 11/11/22*

Quality Control Sample Performance Assessment



Analyst: Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 3/18/2022
Worklist: 65581
Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2370892 |
| MB Concentration: | 0.015 |
| M/B Counting Uncertainty: | 0.073 |
| MB MDC: | 0.186 |
| MB Numerical Performance Indicator: | 0.41 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCS/D (Y or N)? | |
|---|-----------------|------------|
| | LCS/D65581 | Y |
| Count Date: | 4/11/2022 | LCS/D65581 |
| Spike I.D.: | 19-033 | 4/11/2022 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.028 | 19-033 |
| Volume Used (mL): | 0.10 | 24.028 |
| Aliquot Volume (L, g, F): | 0.500 | 0.10 |
| Target Conc. (pCi/L, g, F): | 4.805 | 0.504 |
| Uncertainty (Calculated): | 0.058 | 4.772 |
| Result (pCi/L, g, F): | 5.174 | 0.057 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.469 | 4.831 |
| Numerical Performance Indicator: | 1.53 | 0.442 |
| Percent Recovery: | 107.68% | 0.26 |
| Status vs Numerical Indicator: | N/A | 101.23% |
| Status vs Recovery: | Pass | N/A |
| Upper % Recovery Limits: | 125% | Pass |
| Lower % Recovery Limits: | 75% | 125% |

| Duplicate Sample Assessment | |
|---|------------|
| Sample I.D.: | LCS/D65581 |
| Duplicate Sample I.D.: | LCS/D65581 |
| Sample Result (pCi/L, g, F): | 5.174 |
| Sample Duplicate Result (pCi/L, g, F): | 0.469 |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | 4.831 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.442 |
| Are sample and/or duplicate results below RL? | NO |
| Duplicate Numerical Performance Indicator: | 1.042 |
| Duplicate (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 6.17% |
| Duplicate Status vs Numerical Indicator: | N/A |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|
| Sample Collection Date: | 2/16/2022 | |
| Sample I.D.: | 30470864035 | |
| Sample MS I.D.: | 30470864077 | |
| Sample MSD I.D.: | 30470864078 | |
| Spike I.D.: | 19-033 | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.030 | |
| Spike Volume Used in MS (mL): | 0.20 | |
| Spike Volume Used in MSD (mL): | 0.20 | |
| MS Aliquot (L, g, F): | 0.258 | |
| MS Target Conc. (pCi/L, g, F): | 18.650 | |
| MSD Aliquot (L, g, F): | 0.256 | |
| MSD Target Conc. (pCi/L, g, F): | 18.775 | |
| MS Spike Uncertainty (calculated): | 0.224 | |
| MSD Spike Uncertainty (calculated): | 0.225 | |
| Sample Result: | 0.124 | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.161 | |
| Sample Matrix Spike Result: | 20.398 | |
| Sample Spike Result Counting Uncertainty (pCi/L, g, F): | 1.333 | |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 20.001 | |
| Sample Matrix Spike Duplicate Result: | 1.331 | |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 2.338 | |
| MS Numerical Performance Indicator: | 1.589 | |
| MSD Numerical Performance Indicator: | 105.87% | |
| MS Percent Recovery: | N/A | |
| MSD Percent Recovery: | N/A | |
| MS Status vs Numerical Indicator: | Pass | |
| MSD Status vs Numerical Indicator: | Pass | |
| MS Status vs Recovery: | Pass | |
| MSD Status vs Recovery: | Pass | |
| MS/MSD Upper % Recovery Limits: | 125% | |
| MS/MSD Lower % Recovery Limits: | 75% | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30470864035 |
| Sample MS I.D.: | 30470864077 |
| Sample MSD I.D.: | 30470864078 |
| Sample Matrix Spike Result: | 20.398 |
| Sample Matrix Spike Duplicate Result: | 1.333 |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 20.001 |
| Sample Matrix Spike Duplicate Result: | 1.331 |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.413 |
| Duplicate Numerical Performance Indicator: | 2.64% |
| Duplicate (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | N/A |
| MS/MSD Duplicate Status vs Numerical Indicator: | Pass |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

LAM411122

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Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: JSM
Date: 3/30/2022
Worklist: 65665
Matrix: W1

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2378710 |
| MB concentration: | 0.553 |
| M/B 2 Sigma CSU: | 0.376 |
| MB MDC: | 0.709 |
| MB Numerical Performance Indicator: | 2.89 |
| MB Status vs Numerical Indicator: | Warning |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCS (Y or N)? | | N |
|---|---------------|-----------|-----------|
| | LCS65665 | LCS065665 | |
| Count Date: | 4/4/2022 | | LCS065665 |
| Spike I.D.: | 22-016 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 36.230 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.806 | | |
| Target Conc. (pCi/L, g, F): | 4.496 | | |
| Uncertainty (Calculated): | 0.220 | | |
| Result (pCi/L, g, F): | 4.200 | | |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.965 | | |
| Numerical Performance Indicator: | -0.58 | | |
| Percent Recovery: | 93.43% | | |
| Status vs Numerical Indicator: | N/A | | |
| Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 135% | | |
| Lower % Recovery Limits: | 60% | | |

| Duplicate Sample Assessment | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
|--|---|
| Sample I.D.: | |
| Duplicate Sample I.D.: | |
| Sample Result (pCi/L, g, F): | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature

Handwritten signature

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|
| Sample Collection Date: | 2/15/2022 | |
| Sample I.D.: | 30470864023 | |
| Sample MS I.D.: | 30470864075 | |
| Sample MSD I.D.: | 30470864076 | |
| Spike I.D.: | 22-016 | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 36.809 | |
| Spike Volume Used in MS (mL): | 0.20 | |
| MS Aliquot (L, g, F): | 0.803 | |
| MS Target Conc. (pCi/L, g, F): | 9.164 | |
| MSD Aliquot (L, g, F): | 0.804 | |
| MSD Target Conc. (pCi/L, g, F): | 9.155 | |
| MS Spike Uncertainty (calculated): | 0.449 | |
| MSD Spike Uncertainty (calculated): | 0.449 | |
| Sample Result: | 0.666 | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.500 | |
| Sample Matrix Spike Result: | 8.936 | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 1.909 | |
| Sample Matrix Spike Duplicate Result: | 9.301 | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.903 | |
| MS Numerical Performance Indicator: | -0.866 | |
| MSD Numerical Performance Indicator: | -0.505 | |
| MS Percent Recovery: | 90.24% | |
| MSD Percent Recovery: | 94.32% | |
| MS Status vs Numerical Indicator: | Pass | |
| MSD Status vs Numerical Indicator: | Pass | |
| MS Status vs Recovery: | Pass | |
| MSD Status vs Recovery: | Pass | |
| MS/MSD Upper % Recovery Limits: | 135% | |
| MS/MSD Lower % Recovery Limits: | 60% | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|
| Sample I.D.: | 30470864023 | |
| Sample MS I.D.: | 30470864075 | |
| Sample MSD I.D.: | 30470864076 | |
| Sample Matrix Spike Result: | 8.936 | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 1.909 | |
| Sample Matrix Spike Duplicate Result: | 9.301 | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.903 | |
| Duplicate Numerical Performance Indicator: | -0.265 | |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 4.42% | |
| MS/MSD Duplicate Status vs Numerical Indicator: | Pass | |
| MS/MSD Duplicate Status vs RPD: | Pass | |
| % RPD Limit: | 36% | |

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative



Gorgas Ash Pond

MW-44HO (Salter Well) 2022 Event 1

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verifications for all required field parameters were performed daily, before and after sample collection.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWGORAP_1352

Project/Site : Gorgas Ash Pond
Parrish, AL 35580

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

March 23, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2022.03.23 10:41:23 -05'00'

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2022.03.29 14:16:44 -05'00'



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Total Metals ICP

Gorgas Ash Pond

WMWGORAP_1352

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02859 | 718188 | WMWGORAP_1352 |
| BC02860 | 718188 | WMWGORAP_1352 |
| BC02861 | 718188 | WMWGORAP_1352 |
| BC02862 | 718188 | WMWGORAP_1352 |

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC02860 | Sodium | 10.15 |
| BC02861 | Sodium | 10.15 |

8. The raw data results are shown with dilution factors included.

Case Narrative

Dissolved Metals ICP

Gorgas Ash Pond

WMWGORAP_1352

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02860 | 718149 | WMWGORAP_1352 |
| BC02861 | 718149 | WMWGORAP_1352 |

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BC02861 Sodium MS/MSD spike level was <30% of the sample concentration.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC02860 | Sodium | 10.15 |
| BC02861 | Sodium | 10.15 |

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1352

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02859 | 718923 | WMWGORAP_1352 |
| BC02860 | 718923 | WMWGORAP_1352 |
| BC02861 | 718923 | WMWGORAP_1352 |
| BC02862 | 718923 | WMWGORAP_1352 |

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1352

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02860 | 718615 | WMWGORAP_1352 |
| BC02861 | 718615 | WMWGORAP_1352 |

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Mercury

Gorgas Ash Pond

WMWGORAP_1352

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02859 | 718433 | WMWGORAP_1352 |
| BC02860 | 718433 | WMWGORAP_1352 |
| BC02861 | 718433 | WMWGORAP_1352 |
| BC02862 | 718433 | WMWGORAP_1352 |

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

TDS

Gorgas Ash Pond

WMWGORAP_1352

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02859 | 717996 | WMWGORAP_1352 |
| BC02860 | 717996 | WMWGORAP_1352 |
| BC02861 | 717996 | WMWGORAP_1352 |
| BC02862 | 717996 | WMWGORAP_1352 |

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC02859
 - BC02862

Anions

Gorgas Ash Pond

WMWGORAP_1352

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|------------------------|-------------------|
| BC02859 | 718481, 718050, 718273 | WMWGORAP_1352 |
| BC02860 | 718481, 718050, 718273 | WMWGORAP_1352 |
| BC02861 | 718481, 718050, 718273 | WMWGORAP_1352 |
| BC02862 | 718481, 718050, 718273 | WMWGORAP_1352 |

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
 - A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC02860 | Chloride | 2 |
| BC02861 | Chloride | 2 |

8. The raw data results are shown with dilution factors included.

Case Narrative

Alkalinity

Gorgas Ash Pond

WMWGORAP_1352

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02860 | 719026 & 719027 | WMWGORAP_1352 |
| BC02861 | 719026 & 719027 | WMWGORAP_1352 |

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Nitrate-Nitrite

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02859 | 718736 | WMWGORAP_1352 |
| BC02860 | 718736 | WMWGORAP_1352 |
| BC02861 | 718736 | WMWGORAP_1352 |
| BC02862 | 718736 | WMWGORAP_1352 |

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Gorgas Ash Pond

WMWGORAP_1352

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02859 | 718462 | WMWGORAP_1352 |
| BC02860 | 718462 | WMWGORAP_1352 |
| BC02861 | 718462 | WMWGORAP_1352 |
| BC02862 | 718462 | WMWGORAP_1352 |

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB
Collected: 2/9/22 10:00
Customer ID:
Submittal Date: 2/9/22 16:59

Laboratory ID Number: BC02859

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 12:22 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 12:22 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 12:22 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 12:22 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 12:22 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 12:22 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 12:22 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 12:22 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Barium, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Beryllium, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | 0.000262 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Molybdenum, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Potassium, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:25 | 2/18/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/15/22 17:19 | 2/15/22 22:09 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/17/22 12:59 | 2/17/22 12:59 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/11/22 12:35 | 2/14/22 13:44 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB

Collected: 2/9/22 10:00

Customer ID:

Submittal Date: 2/9/22 16:59

Laboratory ID Number: BC02859

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/15/22 14:06 | 2/15/22 14:06 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:20 | 2/16/22 09:20 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 17:00 | 2/10/22 17:00 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 16:00 | 2/14/22 16:00 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/9/22 10:00

Customer ID:

Delivery Date: 2/9/22 16:59

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC02859

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02862 | Aluminum, Total | mg/L | 0.000733 | 0.010 | 0.100 | 0.0998 | 0.0983 | 0.102 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.51 | 20.0 |
| BC02862 | Antimony, Total | mg/L | 0.000272 | 0.00100 | 0.100 | 0.0972 | 0.0965 | 0.0940 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.723 | 20.0 |
| BC02862 | Arsenic, Total | mg/L | 0.0000123 | 0.000176 | 0.100 | 0.102 | 0.102 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC02862 | Barium, Total | mg/L | -0.0000508 | 0.000200 | 0.100 | 0.100 | 0.102 | 0.0964 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC02862 | Beryllium, Total | mg/L | 0.000156 | 0.000880 | 0.100 | 0.0965 | 0.101 | 0.103 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 4.56 | 20.0 |
| BC02862 | Boron, Total | mg/L | -0.000505 | 0.0650 | 1.00 | 0.999 | 1.02 | 1.02 | 0.850 to 1.15 | 99.9 | 70.0 to 130 | 2.08 | 20.0 |
| BC02862 | Cadmium, Total | mg/L | 0.0000050 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02862 | Calcium, Total | mg/L | 0.00159 | 0.152 | 5.00 | 4.59 | 4.66 | 4.85 | 4.25 to 5.75 | 91.8 | 70.0 to 130 | 1.51 | 20.0 |
| BC02862 | Chromium, Total | mg/L | 0.0000205 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02862 | Cobalt, Total | mg/L | 0.0000100 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC02862 | Iron, Total | mg/L | -0.000195 | 0.0176 | 0.2 | 0.197 | 0.201 | 0.199 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 2.01 | 20.0 |
| BC02862 | Lead, Total | mg/L | 0.0000070 | 0.000147 | 0.100 | 0.107 | 0.110 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.76 | 20.0 |
| BC02862 | Lithium, Total | mg/L | -0.000069 | 0.0154 | 0.200 | 0.208 | 0.210 | 0.197 | 0.170 to 0.230 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02862 | Magnesium, Total | mg/L | 0.00626 | 0.0462 | 5.00 | 5.08 | 5.16 | 5.02 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.56 | 20.0 |
| BC02862 | Manganese, Total | mg/L | 0.0000193 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC02862 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.004 | 0.004 | 0.00391 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02862 | Molybdenum, Total | mg/L | 0.0000249 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02862 | Potassium, Total | mg/L | 0.00781 | 0.367 | 10.0 | 10.2 | 10.3 | 10.6 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC02862 | Selenium, Total | mg/L | 0.0000021 | 0.00100 | 0.100 | 0.104 | 0.103 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02862 | Silicon, Total | mg/L | 0.000099 | 0.0440 | 1.00 | 1.01 | 1.03 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC02862 | Sodium, Total | mg/L | 0.00888 | 0.0660 | 5.00 | 5.06 | 5.14 | 4.85 | 4.25 to 5.75 | 101 | 70.0 to 130 | 1.57 | 20.0 |
| BC02862 | Thallium, Total | mg/L | 0.0000061 | 0.000147 | 0.100 | 0.107 | 0.113 | 0.113 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 5.45 | 20.0 |
| BC02862 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.4 | 10.2 | 25.0 | | 104 | 80.0 to 120 | 1.94 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/9/22 10:00

Customer ID:

Delivery Date: 2/9/22 16:59

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC02859

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|-------|---------------|
| BC02862 | Chloride | mg/L | -0.051 | 1.00 | 10.0 | 9.91 | 0.0093 | 10.1 | 9.00 to 11.0 | 99.1 | 80.0 to 120 | 0.00 | 20.0 |
| BC02862 | Fluoride | mg/L | -0.0144 | 0.125 | 2.50 | 2.59 | -0.00663 | 2.63 | 2.25 to 2.75 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC02862 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.05 | 0.200 | 2.00 | 2.12 | 0.021 | 1.92 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC02861 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 482 | 46.0 | 40.0 to 60.0 | | | 0.833 | 10.0 |
| BC02862 | Sulfate | mg/L | -0.282 | 2.0 | 20.0 | 19.2 | -0.0585 | 19.9 | 18.0 to 22.0 | 96.0 | 80.0 to 120 | 0.00 | 20.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO

Location Code: WMWGORAP
Collected: 2/9/22 10:50
Customer ID:
Submittal Date: 2/9/22 16:59

Laboratory ID Number: BC02860

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 12:24 | | 1.015 | 0.0429 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 12:24 | | 1.015 | 1.16 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 12:24 | | 1.015 | 0.0180 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 12:24 | | 1.015 | 0.0478 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 12:24 | | 1.015 | 0.320 | mg/L | 0.021315 | 0.406 | J | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 12:24 | | 1 | 10.8 | mg/L | | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 12:24 | | 1.015 | 5.06 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:56 | | 10.15 | 201 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:54 | | 1.015 | 0.0423 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:54 | | 1.015 | 1.22 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:54 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:54 | | 1.015 | 0.0450 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:54 | | 1.015 | 0.304 | mg/L | 0.021315 | 0.406 | J | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:54 | | 1 | 10.8 | mg/L | | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:54 | | 1.015 | 5.06 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 13:08 | | 10.15 | 211 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | 0.0262 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | 0.000353 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | 0.0711 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | 0.000233 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | 0.00149 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | 0.00348 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | 0.746 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO

Location Code: WMWGORAP
Collected: 2/9/22 10:50
Customer ID:
Submittal Date: 2/9/22 16:59

Laboratory ID Number: BC02860

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:25 | 2/18/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | 0.0106 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | 0.000213 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | 0.0731 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | 0.000286 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | 0.00122 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | 0.00338 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | 0.673 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 12:10 | 2/16/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/15/22 17:19 | 2/15/22 22:13 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/17/22 13:00 | 2/17/22 13:00 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/21/22 10:42 | 2/21/22 11:07 | | 1 | 400 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/11/22 12:35 | 2/14/22 13:44 | | 1 | 480 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/21/22 10:42 | 2/21/22 11:07 | | 1 | 374 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/21/22 10:42 | 2/21/22 11:07 | | 1 | 26.0 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/15/22 14:20 | 2/15/22 14:20 | | 1 | 1.49 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO

Location Code: WMWGORAP

Collected: 2/9/22 10:50

Customer ID:

Submittal Date: 2/9/22 16:59

Laboratory ID Number: BC02860

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:21 | 2/16/22 09:21 | | 2 | 28.5 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 17:01 | 2/10/22 17:01 | | 1 | 0.142 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 16:01 | 2/14/22 16:01 | | 1 | 27.7 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 2/9/22 10:47 | 2/9/22 10:47 | | | 690.93 | uS/cm | | | FA |
| pH | 2/9/22 10:47 | 2/9/22 10:47 | | | 8.94 | SU | | | FA |
| Temperature | 2/9/22 10:47 | 2/9/22 10:47 | | | 16.84 | C | | | FA |
| Turbidity | 2/9/22 10:47 | 2/9/22 10:47 | | | 0.76 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 10:50

Customer ID:

Delivery Date: 2/9/22 16:59

Description: Gorgas Ash Pond - MW-44HO

Laboratory ID Number: BC02860

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02861 | Aluminum, Dissolved | mg/L | 0.0000661 | 0.010 | 0.100 | 0.108 | 0.105 | 0.0993 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.82 | 20.0 |
| BC02862 | Aluminum, Total | mg/L | 0.000733 | 0.010 | 0.100 | 0.0998 | 0.0983 | 0.102 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.51 | 20.0 |
| BC02861 | Antimony, Dissolved | mg/L | 0.000302 | 0.00100 | 0.100 | 0.0908 | 0.0900 | 0.0897 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.885 | 20.0 |
| BC02862 | Antimony, Total | mg/L | 0.000272 | 0.00100 | 0.100 | 0.0972 | 0.0965 | 0.0940 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.723 | 20.0 |
| BC02861 | Arsenic, Dissolved | mg/L | 0.0000119 | 0.000176 | 0.100 | 0.0992 | 0.0987 | 0.0986 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.505 | 20.0 |
| BC02862 | Arsenic, Total | mg/L | 0.0000123 | 0.000176 | 0.100 | 0.102 | 0.102 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC02861 | Barium, Dissolved | mg/L | 0.0000771 | 0.000200 | 0.100 | 0.169 | 0.167 | 0.0955 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 1.19 | 20.0 |
| BC02862 | Barium, Total | mg/L | -0.0000508 | 0.000200 | 0.100 | 0.100 | 0.102 | 0.0964 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC02861 | Beryllium, Dissolved | mg/L | 0.000188 | 0.000880 | 0.100 | 0.101 | 0.105 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.88 | 20.0 |
| BC02862 | Beryllium, Total | mg/L | 0.000156 | 0.000880 | 0.100 | 0.0965 | 0.101 | 0.103 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 4.56 | 20.0 |
| BC02861 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.08 | 1.06 | 1.03 | 0.850 to 1.15 | 104 | 70.0 to 130 | 1.87 | 20.0 |
| BC02862 | Boron, Total | mg/L | -0.000505 | 0.0650 | 1.00 | 0.999 | 1.02 | 1.02 | 0.850 to 1.15 | 99.9 | 70.0 to 130 | 2.08 | 20.0 |
| BC02861 | Cadmium, Dissolved | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.0994 | 0.0960 | 0.0977 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 3.48 | 20.0 |
| BC02862 | Cadmium, Total | mg/L | 0.0000050 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02861 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 6.06 | 5.84 | 4.85 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 3.70 | 20.0 |
| BC02862 | Calcium, Total | mg/L | 0.00159 | 0.152 | 5.00 | 4.59 | 4.66 | 4.85 | 4.25 to 5.75 | 91.8 | 70.0 to 130 | 1.51 | 20.0 |
| BC02861 | Chromium, Dissolved | mg/L | -0.0000048 | 0.000440 | 0.100 | 0.0987 | 0.0968 | 0.100 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 1.94 | 20.0 |
| BC02862 | Chromium, Total | mg/L | 0.0000205 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02861 | Cobalt, Dissolved | mg/L | 0.0000138 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC02862 | Cobalt, Total | mg/L | 0.0000100 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC02861 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.201 | 0.196 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 2.52 | 20.0 |
| BC02862 | Iron, Total | mg/L | -0.000195 | 0.0176 | 0.2 | 0.197 | 0.201 | 0.199 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 2.01 | 20.0 |
| BC02861 | Lead, Dissolved | mg/L | 0.0000182 | 0.000147 | 0.100 | 0.101 | 0.104 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC02862 | Lead, Total | mg/L | 0.0000070 | 0.000147 | 0.100 | 0.107 | 0.110 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.76 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 10:50

Customer ID:

Delivery Date: 2/9/22 16:59

Description: Gorgas Ash Pond - MW-44HO

Laboratory ID Number: BC02860

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02861 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.251 | 0.248 | 0.202 | 0.170 to 0.230 | 103 | 70.0 to 130 | 1.20 | 20.0 |
| BC02862 | Lithium, Total | mg/L | -0.000069 | 0.0154 | 0.200 | 0.208 | 0.210 | 0.197 | 0.170 to 0.230 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02861 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 5.36 | 5.28 | 5.13 | 4.25 to 5.75 | 101 | 70.0 to 130 | 1.50 | 20.0 |
| BC02862 | Magnesium, Total | mg/L | 0.00626 | 0.0462 | 5.00 | 5.08 | 5.16 | 5.02 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.56 | 20.0 |
| BC02861 | Manganese, Dissolved | mg/L | -0.000134 | 0.0002 | 0.100 | 0.101 | 0.0992 | 0.102 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 1.80 | 20.0 |
| BC02862 | Manganese, Total | mg/L | 0.0000193 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC02862 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.004 | 0.004 | 0.00391 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02861 | Molybdenum, Dissolved | mg/L | 0.0000055 | 0.0002 | 0.100 | 0.101 | 0.0985 | 0.0954 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 2.51 | 20.0 |
| BC02862 | Molybdenum, Total | mg/L | 0.0000249 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02861 | Potassium, Dissolved | mg/L | 0.00457 | 0.367 | 10.0 | 10.0 | 9.90 | 9.71 | 8.50 to 11.5 | 93.3 | 70.0 to 130 | 1.01 | 20.0 |
| BC02862 | Potassium, Total | mg/L | 0.00781 | 0.367 | 10.0 | 10.2 | 10.3 | 10.6 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC02861 | Selenium, Dissolved | mg/L | 0.0000593 | 0.00100 | 0.100 | 0.103 | 0.0988 | 0.0977 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 4.16 | 20.0 |
| BC02862 | Selenium, Total | mg/L | 0.0000021 | 0.00100 | 0.100 | 0.104 | 0.103 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02861 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 6.14 | 6.07 | 1.04 | 0.850 to 1.15 | 108 | 70.0 to 130 | 1.15 | 20.0 |
| BC02862 | Silicon, Total | mg/L | 0.000099 | 0.0440 | 1.00 | 1.01 | 1.03 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC02861 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 213 | 239 | 5.06 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 11.5 | 20.0 |
| BC02862 | Sodium, Total | mg/L | 0.00888 | 0.0660 | 5.00 | 5.06 | 5.14 | 4.85 | 4.25 to 5.75 | 101 | 70.0 to 130 | 1.57 | 20.0 |
| BC02861 | Thallium, Dissolved | mg/L | 0.0000060 | 0.000147 | 0.100 | 0.0977 | 0.0997 | 0.101 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 2.03 | 20.0 |
| BC02862 | Thallium, Total | mg/L | 0.0000061 | 0.000147 | 0.100 | 0.107 | 0.113 | 0.113 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 5.45 | 20.0 |
| BC02862 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.4 | 10.2 | 25.0 | | 104 | 80.0 to 120 | 1.94 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 10:50

Customer ID:

Delivery Date: 2/9/22 16:59

Description: Gorgas Ash Pond - MW-44HO

Laboratory ID Number: BC02860

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|-------|---------------|
| BC02861 | Alkalinity, Total as CaCO3 | mg/L | | | | | 420 | 50.7 | 45.0 to 55.0 | | | 1.44 | 10.0 |
| BC02862 | Chloride | mg/L | -0.051 | 1.00 | 10.0 | 9.91 | 0.0093 | 10.1 | 9.00 to 11.0 | 99.1 | 80.0 to 120 | 0.00 | 20.0 |
| BC02862 | Fluoride | mg/L | -0.0144 | 0.125 | 2.50 | 2.59 | -0.00663 | 2.63 | 2.25 to 2.75 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC02862 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.05 | 0.200 | 2.00 | 2.12 | 0.021 | 1.92 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC02861 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 482 | 46.0 | 40.0 to 60.0 | | | 0.833 | 10.0 |
| BC02862 | Sulfate | mg/L | -0.282 | 2.0 | 20.0 | 19.2 | -0.0585 | 19.9 | 18.0 to 22.0 | 96.0 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO DUP

Location Code: WMWGORAP
Collected: 2/9/22 10:50
Customer ID:
Submittal Date: 2/9/22 16:59

Laboratory ID Number: BC02861

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 12:25 | | 1.015 | 0.0430 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 12:25 | | 1.015 | 1.21 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 12:25 | | 1.015 | 0.0181 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 12:25 | | 1.015 | 0.0459 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 12:25 | | 1.015 | 0.315 | mg/L | 0.021315 | 0.406 | J |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 12:25 | | 1 | 10.8 | mg/L | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 12:25 | | 1.015 | 5.06 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:57 | | 10.15 | 204 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:56 | | 1.015 | 0.0427 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:56 | | 1.015 | 1.17 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:56 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:56 | | 1.015 | 0.0452 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:56 | | 1.015 | 0.302 | mg/L | 0.021315 | 0.406 | J |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:56 | | 1 | 10.8 | mg/L | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:56 | | 1.015 | 5.06 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 13:10 | | 10.15 | 210 | mg/L | 0.3045 | 4.06 | RA |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | 0.0256 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | 0.000328 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | 0.0750 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | 0.000291 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | 0.00159 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | 0.00379 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | 0.795 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO DUP

Location Code: WMWGORAP
Collected: 2/9/22 10:50
Customer ID:
Submittal Date: 2/9/22 16:59

Laboratory ID Number: BC02861

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:25 | 2/18/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | 0.0107 | mg/L | 0.004060 | 0.01015 | |
| * Arsenic, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | 0.000250 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | 0.0735 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | 0.00113 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | 0.00335 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | 0.669 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 12:10 | 2/16/22 13:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/15/22 17:19 | 2/15/22 22:17 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/17/22 13:01 | 2/17/22 13:01 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/21/22 10:42 | 2/21/22 11:07 | | 1 | 414 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/11/22 12:35 | 2/14/22 13:44 | | 1 | 478 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/21/22 10:42 | 2/21/22 11:07 | | 1 | 389 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/21/22 10:42 | 2/21/22 11:07 | | 1 | 24.7 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/15/22 14:36 | 2/15/22 14:36 | | 1 | 1.62 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO DUP

Location Code: WMWGORAP
Collected: 2/9/22 10:50
Customer ID:
Submittal Date: 2/9/22 16:59

Laboratory ID Number: BC02861

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:22 | 2/16/22 09:22 | | 2 | 28.9 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 17:03 | 2/10/22 17:03 | | 1 | 0.138 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 16:03 | 2/14/22 16:03 | | 1 | 30.3 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 2/9/22 10:47 | 2/9/22 10:47 | | | 690.93 | uS/cm | | | FA |
| pH | 2/9/22 10:47 | 2/9/22 10:47 | | | 8.94 | SU | | | FA |
| Temperature | 2/9/22 10:47 | 2/9/22 10:47 | | | 16.84 | C | | | FA |
| Turbidity | 2/9/22 10:47 | 2/9/22 10:47 | | | 0.76 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 10:50

Customer ID:

Delivery Date: 2/9/22 16:59

Description: Gorgas Ash Pond - MW-44HO DUP

Laboratory ID Number: BC02861

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC02861 | Aluminum, Dissolved | mg/L | 0.0000661 | 0.010 | 0.100 | 0.108 | 0.105 | 0.0993 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.82 | 20.0 |
| BC02862 | Aluminum, Total | mg/L | 0.000733 | 0.010 | 0.100 | 0.0998 | 0.0983 | 0.102 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.51 | 20.0 |
| BC02861 | Antimony, Dissolved | mg/L | 0.000302 | 0.00100 | 0.100 | 0.0908 | 0.0900 | 0.0897 | 0.0850 to 0.115 | 90.8 | 70.0 to 130 | 0.885 | 20.0 |
| BC02862 | Antimony, Total | mg/L | 0.000272 | 0.00100 | 0.100 | 0.0972 | 0.0965 | 0.0940 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.723 | 20.0 |
| BC02861 | Arsenic, Dissolved | mg/L | 0.0000119 | 0.000176 | 0.100 | 0.0992 | 0.0987 | 0.0986 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.505 | 20.0 |
| BC02862 | Arsenic, Total | mg/L | 0.0000123 | 0.000176 | 0.100 | 0.102 | 0.102 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC02861 | Barium, Dissolved | mg/L | 0.0000771 | 0.000200 | 0.100 | 0.169 | 0.167 | 0.0955 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 1.19 | 20.0 |
| BC02862 | Barium, Total | mg/L | -0.0000508 | 0.000200 | 0.100 | 0.100 | 0.102 | 0.0964 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC02861 | Beryllium, Dissolved | mg/L | 0.000188 | 0.000880 | 0.100 | 0.101 | 0.105 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.88 | 20.0 |
| BC02862 | Beryllium, Total | mg/L | 0.000156 | 0.000880 | 0.100 | 0.0965 | 0.101 | 0.103 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 4.56 | 20.0 |
| BC02861 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.08 | 1.06 | 1.03 | 0.850 to 1.15 | 104 | 70.0 to 130 | 1.87 | 20.0 |
| BC02862 | Boron, Total | mg/L | -0.000505 | 0.0650 | 1.00 | 0.999 | 1.02 | 1.02 | 0.850 to 1.15 | 99.9 | 70.0 to 130 | 2.08 | 20.0 |
| BC02861 | Cadmium, Dissolved | mg/L | 0.0000051 | 0.000147 | 0.100 | 0.0994 | 0.0960 | 0.0977 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 3.48 | 20.0 |
| BC02862 | Cadmium, Total | mg/L | 0.0000050 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02861 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 6.06 | 5.84 | 4.85 | 4.25 to 5.75 | 97.8 | 70.0 to 130 | 3.70 | 20.0 |
| BC02862 | Calcium, Total | mg/L | 0.00159 | 0.152 | 5.00 | 4.59 | 4.66 | 4.85 | 4.25 to 5.75 | 91.8 | 70.0 to 130 | 1.51 | 20.0 |
| BC02861 | Chromium, Dissolved | mg/L | -0.0000048 | 0.000440 | 0.100 | 0.0987 | 0.0968 | 0.100 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 1.94 | 20.0 |
| BC02862 | Chromium, Total | mg/L | 0.0000205 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02861 | Cobalt, Dissolved | mg/L | 0.0000138 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC02862 | Cobalt, Total | mg/L | 0.0000100 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC02861 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.201 | 0.196 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 2.52 | 20.0 |
| BC02862 | Iron, Total | mg/L | -0.000195 | 0.0176 | 0.2 | 0.197 | 0.201 | 0.199 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 2.01 | 20.0 |
| BC02861 | Lead, Dissolved | mg/L | 0.0000182 | 0.000147 | 0.100 | 0.101 | 0.104 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC02862 | Lead, Total | mg/L | 0.0000070 | 0.000147 | 0.100 | 0.107 | 0.110 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.76 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 10:50

Customer ID:

Delivery Date: 2/9/22 16:59

Description: Gorgas Ash Pond - MW-44HO DUP

Laboratory ID Number: BC02861

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02861 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.251 | 0.248 | 0.202 | 0.170 to 0.230 | 103 | 70.0 to 130 | 1.20 | 20.0 |
| BC02862 | Lithium, Total | mg/L | -0.000069 | 0.0154 | 0.200 | 0.208 | 0.210 | 0.197 | 0.170 to 0.230 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02861 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 5.36 | 5.28 | 5.13 | 4.25 to 5.75 | 101 | 70.0 to 130 | 1.50 | 20.0 |
| BC02862 | Magnesium, Total | mg/L | 0.00626 | 0.0462 | 5.00 | 5.08 | 5.16 | 5.02 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.56 | 20.0 |
| BC02861 | Manganese, Dissolved | mg/L | -0.000134 | 0.0002 | 0.100 | 0.101 | 0.0992 | 0.102 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 1.80 | 20.0 |
| BC02862 | Manganese, Total | mg/L | 0.0000193 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC02862 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.004 | 0.004 | 0.00391 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02861 | Molybdenum, Dissolved | mg/L | 0.0000055 | 0.0002 | 0.100 | 0.101 | 0.0985 | 0.0954 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 2.51 | 20.0 |
| BC02862 | Molybdenum, Total | mg/L | 0.0000249 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02861 | Potassium, Dissolved | mg/L | 0.00457 | 0.367 | 10.0 | 10.0 | 9.90 | 9.71 | 8.50 to 11.5 | 93.3 | 70.0 to 130 | 1.01 | 20.0 |
| BC02862 | Potassium, Total | mg/L | 0.00781 | 0.367 | 10.0 | 10.2 | 10.3 | 10.6 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC02861 | Selenium, Dissolved | mg/L | 0.0000593 | 0.00100 | 0.100 | 0.103 | 0.0988 | 0.0977 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 4.16 | 20.0 |
| BC02862 | Selenium, Total | mg/L | 0.0000021 | 0.00100 | 0.100 | 0.104 | 0.103 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02861 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 6.14 | 6.07 | 1.04 | 0.850 to 1.15 | 108 | 70.0 to 130 | 1.15 | 20.0 |
| BC02862 | Silicon, Total | mg/L | 0.000099 | 0.0440 | 1.00 | 1.01 | 1.03 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC02861 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 213 | 239 | 5.06 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 11.5 | 20.0 |
| BC02862 | Sodium, Total | mg/L | 0.00888 | 0.0660 | 5.00 | 5.06 | 5.14 | 4.85 | 4.25 to 5.75 | 101 | 70.0 to 130 | 1.57 | 20.0 |
| BC02861 | Thallium, Dissolved | mg/L | 0.0000060 | 0.000147 | 0.100 | 0.0977 | 0.0997 | 0.101 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 2.03 | 20.0 |
| BC02862 | Thallium, Total | mg/L | 0.0000061 | 0.000147 | 0.100 | 0.107 | 0.113 | 0.113 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 5.45 | 20.0 |
| BC02862 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.4 | 10.2 | 25.0 | | 104 | 80.0 to 120 | 1.94 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 10:50

Customer ID:

Delivery Date: 2/9/22 16:59

Description: Gorgas Ash Pond - MW-44HO DUP

Laboratory ID Number: BC02861

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|---------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02861 | Alkalinity, Total as CaCO3 | mg/L | | | | | 420 | 50.7 | 45.0 to 55.0 | | | 1.44 | 10.0 |
| BC02862 | Chloride | mg/L | -0.051 | 1.00 | 10.0 | 9.91 | 0.0093 | 10.1 | 9.00 to 11.0 | 99.1 | 80.0 to 120 | 0.00 | 20.0 |
| BC02862 | Fluoride | mg/L | -0.0144 | 0.125 | 2.50 | 2.59 | -0.00663 | 2.63 | 2.25 to 2.75 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC02862 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.05 | 0.200 | 2.00 | 2.12 | 0.021 | 1.92 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC02861 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 482 | 46.0 | 40.0 to 60.0 | | | 0.833 | 10.0 |
| BC02862 | Sulfate | mg/L | -0.282 | 2.0 | 20.0 | 19.2 | -0.0585 | 19.9 | 18.0 to 22.0 | 96.0 | 80.0 to 120 | 0.00 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB
Collected: 2/9/22 11:45
Customer ID:
Submittal Date: 2/9/22 16:59

Laboratory ID Number: BC02862

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 12:27 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 12:27 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 12:27 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 12:27 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 12:27 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 12:27 | | 1 | Not Detected | mg/L | | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 12:27 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 12:27 | | 1.015 | 0.0340 | mg/L | 0.03045 | 0.406 | J | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U | |
| * Arsenic, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Barium, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U | |
| * Beryllium, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | 0.000234 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Molybdenum, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Potassium, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U | |
| * Selenium, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Thallium, Total | 2/16/22 10:25 | 2/18/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | | |
| * Mercury, Total by CVAA | 2/15/22 17:19 | 2/15/22 22:21 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U | |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/17/22 13:02 | 2/17/22 13:02 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | | |
| * Solids, Dissolved | 2/11/22 12:35 | 2/14/22 13:44 | | 1 | Not Detected | mg/L | | 25 | U | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB

Collected: 2/9/22 11:45

Customer ID:

Submittal Date: 2/9/22 16:59

Laboratory ID Number: BC02862

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/15/22 14:53 | 2/15/22 14:53 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:23 | 2/16/22 09:23 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 17:04 | 2/10/22 17:04 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 16:04 | 2/14/22 16:04 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 2/9/22 11:45

Customer ID:

Delivery Date: 2/9/22 16:59

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC02862

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|--------|--------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02862 | Aluminum, Total | mg/L | 0.000733 | 0.010 | 0.100 | 0.0998 | 0.0983 | 0.102 | 0.0850 to 0.115 | 99.8 | 70.0 to 130 | 1.51 | 20.0 |
| BC02862 | Antimony, Total | mg/L | 0.000272 | 0.00100 | 0.100 | 0.0972 | 0.0965 | 0.0940 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.723 | 20.0 |
| BC02862 | Arsenic, Total | mg/L | 0.0000123 | 0.000176 | 0.100 | 0.102 | 0.102 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC02862 | Barium, Total | mg/L | -0.0000508 | 0.000200 | 0.100 | 0.100 | 0.102 | 0.0964 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC02862 | Beryllium, Total | mg/L | 0.000156 | 0.000880 | 0.100 | 0.0965 | 0.101 | 0.103 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 4.56 | 20.0 |
| BC02862 | Boron, Total | mg/L | -0.000505 | 0.0650 | 1.00 | 0.999 | 1.02 | 1.02 | 0.850 to 1.15 | 99.9 | 70.0 to 130 | 2.08 | 20.0 |
| BC02862 | Cadmium, Total | mg/L | 0.0000050 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02862 | Calcium, Total | mg/L | 0.00159 | 0.152 | 5.00 | 4.59 | 4.66 | 4.85 | 4.25 to 5.75 | 91.8 | 70.0 to 130 | 1.51 | 20.0 |
| BC02862 | Chromium, Total | mg/L | 0.0000205 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC02862 | Cobalt, Total | mg/L | 0.0000100 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC02862 | Iron, Total | mg/L | -0.000195 | 0.0176 | 0.2 | 0.197 | 0.201 | 0.199 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 2.01 | 20.0 |
| BC02862 | Lead, Total | mg/L | 0.0000070 | 0.000147 | 0.100 | 0.107 | 0.110 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.76 | 20.0 |
| BC02862 | Lithium, Total | mg/L | -0.000069 | 0.0154 | 0.200 | 0.208 | 0.210 | 0.197 | 0.170 to 0.230 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC02862 | Magnesium, Total | mg/L | 0.00626 | 0.0462 | 5.00 | 5.08 | 5.16 | 5.02 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.56 | 20.0 |
| BC02862 | Manganese, Total | mg/L | 0.0000193 | 0.0002 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC02862 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.004 | 0.004 | 0.00391 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02862 | Molybdenum, Total | mg/L | 0.0000249 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC02862 | Potassium, Total | mg/L | 0.00781 | 0.367 | 10.0 | 10.2 | 10.3 | 10.6 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC02862 | Selenium, Total | mg/L | 0.0000021 | 0.00100 | 0.100 | 0.104 | 0.103 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC02862 | Silicon, Total | mg/L | 0.000099 | 0.0440 | 1.00 | 1.01 | 1.03 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC02862 | Sodium, Total | mg/L | 0.00888 | 0.0660 | 5.00 | 5.06 | 5.14 | 4.85 | 4.25 to 5.75 | 101 | 70.0 to 130 | 1.57 | 20.0 |
| BC02862 | Thallium, Total | mg/L | 0.0000061 | 0.000147 | 0.100 | 0.107 | 0.113 | 0.113 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 5.45 | 20.0 |
| BC02862 | Total Organic Carbon | mg/L | 0.300 | 1.00 | 10.0 | 10.4 | 10.2 | 25.0 | | 104 | 80.0 to 120 | 1.94 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 2/9/22 11:45

Customer ID:

Delivery Date: 2/9/22 16:59

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC02862

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|---------|-------------|-------|------|---------------------|----------|-------------------|------|-------------|-------|---------------|
| BC02862 | Chloride | mg/L | -0.051 | 1.00 | 10.0 | 9.91 | 0.0093 | 10.1 | 9.00 to 11.0 | 99.1 | 80.0 to 120 | 0.00 | 20.0 |
| BC02862 | Fluoride | mg/L | -0.0144 | 0.125 | 2.50 | 2.59 | -0.00663 | 2.63 | 2.25 to 2.75 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC02862 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.05 | 0.200 | 2.00 | 2.12 | 0.021 | 1.92 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC02861 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 482 | 46.0 | 40.0 to 60.0 | | | 0.833 | 10.0 |
| BC02862 | Sulfate | mg/L | -0.282 | 2.0 | 20.0 | 19.2 | -0.0585 | 19.9 | 18.0 to 22.0 | 96.0 | 80.0 to 120 | 0.00 | 20.0 |

Comments:

Definitions

Project Number: WMWGORAP_1352

| Abbreviation | Description |
|--------------|---|
| DF | Dilution Factor |
| LCS | Lab Control Sample |
| LFM | Lab Fortified Matrix |
| MB | Method Blank |
| MDL | Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero. |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| Prec | Precision (% RPD) |
| Q | Qualifier; comment used to note deviations or additional information associated with analytical results. |
| QC | Quality Control |
| Rec | Recovery of Matrix Spike |
| RL | Reporting Limit; lowest concentration at which an analyte can be quantitatively measured. |
| Vio Spec | Violation Specification; regulatory limit which has been exceeded by the sample analyzed. |

| Qualifier | Description |
|-----------|--|
| FA | Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative. |
| J | Reported value is an estimate because concentration is less than reporting limit. |
| RA | Matrix spike is invalid due to sample concentration. |
| U | Compound was analyzed, but not detected. |

February 15, 2022

Laura Midkiff
Alabama Power
744 Highway 87
GSC 8
Calera, AL 35040

RE: Project: WMWGORAP_1352
Pace Project No.: 20234696

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - New Orleans

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Karen Brown
karen.brown@pacelabs.com
(504)469-0333
Project Manager

Enclosures

cc: Renee Jernigan, Alabama Power
Trinity B. Williams, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGORAP_1352

Pace Project No.: 20234696

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: WMWGORAP_1352

Pace Project No.: 20234696

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------------|--------|----------------|----------------|
| 20234696001 | BC02863 FB-1 | Water | 02/09/22 10:00 | 02/10/22 14:55 |
| 20234696002 | BC02864 MW-44HO | Water | 02/09/22 10:50 | 02/10/22 14:55 |
| 20234696003 | BC02865 MW-44HO DUP | Water | 02/09/22 10:50 | 02/10/22 14:55 |
| 20234696004 | BC02866 EB-1 | Water | 02/09/22 11:45 | 02/10/22 14:55 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1352

Pace Project No.: 20234696

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------------|---------------|----------|-------------------|
| 20234696001 | BC02863 FB-1 | SM 4500-S-2 D | RVJ | 1 |
| 20234696002 | BC02864 MW-44HO | SM 4500-S-2 D | RVJ | 1 |
| 20234696003 | BC02865 MW-44HO DUP | SM 4500-S-2 D | RVJ | 1 |
| 20234696004 | BC02866 EB-1 | SM 4500-S-2 D | RVJ | 1 |

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1352

Pace Project No.: 20234696

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Alabama Power

Date: February 15, 2022

General Information:

4 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 247736

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20234712003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1176454)
- Sulfide, Total

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1352

Pace Project No.: 20234696

Sample: BC02863 FB-1 **Lab ID: 20234696001** Collected: 02/09/22 10:00 Received: 02/10/22 14:55 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D | | | | | | | | | |
| Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/14/22 15:32 | 18496-25-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1352

Pace Project No.: 20234696

Sample: BC02864 MW-44HO **Lab ID: 20234696002** Collected: 02/09/22 10:50 Received: 02/10/22 14:55 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----------------|------|----|----------|----------------|------------|------|
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D | | | | | | | | | |
| Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 6.1 | mg/L | 0.50 | 0.30 | 25 | | 02/15/22 14:58 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1352

Pace Project No.: 20234696

Sample: BC02865 MW-44HO DUP **Lab ID: 20234696003** Collected: 02/09/22 10:50 Received: 02/10/22 14:55 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|------------|-------|-----------------|-----|-----|----------|----------------|------------|------|
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D | | | | | | | | | |
| Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 6.6 | mg/L | 2.5 | 1.5 | 125 | | 02/15/22 15:05 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1352

Pace Project No.: 20234696

Sample: BC02866 EB-1 **Lab ID: 20234696004** Collected: 02/09/22 11:45 Received: 02/10/22 14:55 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D | | | | | | | | | |
| Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/15/22 15:00 | 18496-25-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGORAP_1352
Pace Project No.: 20234696

| | |
|--------------------------------|--|
| QC Batch: 247615 | Analysis Method: SM 4500-S-2 D |
| QC Batch Method: SM 4500-S-2 D | Analysis Description: 4500S2D Sulfide, Total |
| | Laboratory: Pace Analytical Services - New Orleans |

Associated Lab Samples: 20234696001

METHOD BLANK: 1175910 Matrix: Water
Associated Lab Samples: 20234696001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/14/22 14:22 | |

LABORATORY CONTROL SAMPLE: 1175911

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.18 | 90 | 90-110 | |

MATRIX SPIKE SAMPLE: 1175913

| Parameter | Units | 20234694001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | 1.5 | 1 | 2.3 | 79 | 75-125 | |

SAMPLE DUPLICATE: 1175912

| Parameter | Units | 20234694001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | 1.5 | 1.5 | 0 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WMWGORAP_1352
Pace Project No.: 20234696

| | |
|--------------------------------|--|
| QC Batch: 247736 | Analysis Method: SM 4500-S-2 D |
| QC Batch Method: SM 4500-S-2 D | Analysis Description: 4500S2D Sulfide, Total |
| | Laboratory: Pace Analytical Services - New Orleans |

Associated Lab Samples: 20234696002, 20234696003, 20234696004

METHOD BLANK: 1176451 Matrix: Water
Associated Lab Samples: 20234696002, 20234696003, 20234696004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/15/22 14:28 | |

LABORATORY CONTROL SAMPLE: 1176452

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.19 | 93 | 90-110 | |

MATRIX SPIKE SAMPLE: 1176454

| Parameter | Units | 20234712003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | ND | 0.2 | 0.14 | 70 | 75-125 | M1 |

SAMPLE DUPLICATE: 1176453

| Parameter | Units | 20234712003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | ND | ND | | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGORAP_1352

Pace Project No.: 20234696

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1352

Pace Project No.: 20234696

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------|-----------------|----------|-------------------|------------------|
| 20234696001 | BC02863 FB-1 | SM 4500-S-2 D | 247615 | | |
| 20234696002 | BC02864 MW-44HO | SM 4500-S-2 D | 247736 | | |
| 20234696003 | BC02865 MW-44HO DUP | SM 4500-S-2 D | 247736 | | |
| 20234696004 | BC02866 EB-1 | SM 4500-S-2 D | 247736 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Docur
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be α

| | | | | | |
|---|-------------------------------|--|-----------------------------------|--|----------------------|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | Report To: Laura Midkiff | Copy To: Brooke Caton & Renee Jernigan | Attention: Laura Midkiff | Company Name: Alabama Power Co. | Regulatory Agency: |
| Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | | | | Address: 744 Highway 87 GSC Bldg #8 CCR | State / Location: AL |
| Email To: lbmidkif@southernco.com | Purchase Order #: APC10755638 | Project Name: Plant Gorgas Ash Pond | Pace Project Manager: Karen Brown | | |
| Phone: 205-664-6197 Fax | Project Number: WMWGORAP_1352 | | | | |
| Requested Due Date: Normal | | | | | |

| ITEM # | DESCRIPTION | Station Name Location_Code | Site Name Facility_ID | COLLECTED | | Matrix Spike/Matrix Spike Duplicate | Sample Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | # OF CONTAINERS | Preservatives | Y/N | Requested Analysis Filtered (Y/N) | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) | Ice (Y/N) | Custody (Y/N) | Sealed Cooler (Y/N) | Samples Intact (Y/N) | |
|--------|-------------|-------------------------------|--------------------------|---------------------|----------|-------------------------------------|------------------|----------------|-------------|-----------------------------|-----------------|---------------|-----|-----------------------------------|----------|----------|------------------|---------------|-------------------------|-----------|---------------|---------------------|----------------------|--|
| | | | | DATE | TIME | | | | | | | | | | | | | | | | | | | |
| 1 | BC02863 | FB-1 | APCO-GS-AP-FB-01 | APCO_Gorgas_AshPond | 2/9/2022 | 9:45 | | | GW | G | 1000 | | | | | | | | | | | | | |
| 2 | BC02864 | MW-44HO | APCO-GS-AP-MW-44HO | APCO_Gorgas_AshPond | 2/9/2022 | 10:50 | | | GW | G | 1 | X | | | | | | | | | | | | |
| 3 | BC02865 | MW-44HO DUP | APCO-GS-AP-MW-44HO | APCO_Gorgas_AshPond | 2/9/2022 | 11:45 | X | | GW | G | 1000 | X | | | | | | | | | | | | |
| 4 | BC02866 | EB-1 | APCO-GS-AP-EB-01 | APCO_Gorgas_AshPond | 2/9/2022 | 44:46 | | | GW | G | 1000 | X | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | | ACCEPTED BY / AFFILIATION | | DATE | TIME | DATE | TIME |
|---------------------|-------------------------------|-----------------------|---------------------------|-----------------------|----------|-------|---------|-------|
| | PRINT Name of SAMPLER: | SIGNATURE of SAMPLER: | PRINT Name of SAMPLER: | SIGNATURE of SAMPLER: | | | | |
| | Laura Midkiff/ APC GTL | | Fed Ex | | 2/9/2022 | 17:30 | 2/10/22 | 14:55 |
| | | | Fed Ex | | 2/10/22 | 14:55 | 2/10/22 | 14:53 |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Anthony Goggins
 SIGNATURE of SAMPLER: Anthony Goggins
 DATE Signed: 2/10/22



1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Receipt

WO#: 20234696

PM: KHB

Due Date: 02/22/22

CLIENT: 20-Alabama

Project

Courier: Pace Courier Hired Courier Fed X UPS DHL USPS Customer Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: Yes No

Thermometer Used: Therm Fisher IR 7 Therm Fisher IR 10

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2/10/22 AR

Temp must be measured from Temperature blank when present

Comments:

| | | |
|---|--|--|
| Temperature Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 1 |
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2 |
| Chain of Custody Complete: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3 |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4 |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5 |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6 |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7 |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8 |
| Filtered vol. Rec. for Diss. tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 9 |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10 |
| All containers received within manufacture's precautionary and/or expiration dates. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11 |
| All containers needing chemical preservation have been checked (except VOA, coliform, & O&G). | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12 |
| All containers preservation checked found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13 |
| | | If No, was preservative added? <input type="checkbox"/> Yes <input type="checkbox"/> No If added record lot no.: HNO3 _____ H2SO4 _____ |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14 |
| Trip Blank Present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 15 |

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

April 15, 2022

Laura Midkiff
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGORAP_1352
Pace Project No.: 30467365

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory between February 15, 2022 and February 16, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGORAP_1352
Pace Project No.: 30467365

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Florida: Cert E871149 SEKS WET
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1352

Pace Project No.: 30467365

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------------|--------|----------------|----------------|
| 30467365001 | BC02863 FB-1 | Water | 02/09/22 10:00 | 02/15/22 09:55 |
| 30467365002 | BC02864 MW-44HO | Water | 02/09/22 10:50 | 02/15/22 09:55 |
| 30467365003 | BC02865 MW-44HO DUP | Water | 02/09/22 10:50 | 02/15/22 09:55 |
| 30467365004 | BC02866 EB-1 | Water | 02/09/22 11:45 | 02/15/22 09:55 |
| 30467365005 | BC02864 MW-44HO MS | Water | 02/09/22 10:50 | 02/16/22 09:35 |
| 30467365006 | BC02864 MW-44HO MSD | Water | 02/09/22 10:50 | 02/16/22 09:35 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1352
Pace Project No.: 30467365

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------------|--------------------------|----------|-------------------|------------|
| 30467365001 | BC02863 FB-1 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30467365002 | BC02864 MW-44HO | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30467365003 | BC02865 MW-44HO DUP | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30467365004 | BC02866 EB-1 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30467365005 | BC02864 MW-44HO MS | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30467365006 | BC02864 MW-44HO MSD | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1352

Pace Project No.: 30467365

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: April 15, 2022

General Information:

6 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1352
Pace Project No.: 30467365

Method: EPA 9320
Description: 9320 Radium 228
Client: Alabama Power
Date: April 15, 2022

General Information:

6 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1352

Pace Project No.: 30467365

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: April 15, 2022

General Information:

4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1352

Pace Project No.: 30467365

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: BC02863 FB-1 Lab ID: 30467365001 Collected: 02/09/22 10:00 Received: 02/15/22 09:55 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.171U ± 0.159 (0.286) C:97% T:NA | pCi/L | 03/11/22 14:19 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.436U ± 0.315 (0.602) C:78% T:88% | pCi/L | 03/04/22 10:50 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.607U ± 0.474 (0.888) | pCi/L | 03/14/22 21:57 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1352

Pace Project No.: 30467365

Sample: BC02864 MW-44HO **Lab ID: 30467365002** Collected: 02/09/22 10:50 Received: 02/15/22 09:55 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.139U ± 0.155 (0.303) C:92% T:NA | pCi/L | 03/11/22 14:19 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.654U ± 0.404 (0.737) C:72% T:76% | pCi/L | 03/04/22 10:50 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.793U ± 0.559 (1.04) | pCi/L | 03/14/22 21:57 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1352

Pace Project No.: 30467365

Sample: BC02865 MW-44HO DUP **Lab ID: 30467365003** Collected: 02/09/22 10:50 Received: 02/15/22 09:55 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.152U ± 0.158 (0.297) C:91% T:NA | pCi/L | 03/11/22 14:19 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.00377U ± 0.323 (0.756) C:73% T:81% | pCi/L | 03/04/22 10:50 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.156U ± 0.481 (1.05) | pCi/L | 03/14/22 21:57 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1352

Pace Project No.: 30467365

Sample: BC02866 EB-1 **Lab ID: 30467365004** Collected: 02/09/22 11:45 Received: 02/15/22 09:55 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.138U ± 0.153 (0.302) C:101% T:NA | pCi/L | 03/11/22 14:19 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.230U ± 0.353 (0.764) C:76% T:86% | pCi/L | 03/04/22 10:50 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.368U ± 0.506 (1.07) | pCi/L | 03/14/22 21:57 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1352

Pace Project No.: 30467365

Sample: BC02864 MW-44HO MS **Lab ID: 30467365005** Collected: 02/09/22 10:50 Received: 02/16/22 09:35 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 107.87 %REC ± NA (NA) C:NA T:NA | pCi/L | 03/11/22 14:19 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 67.57 %REC ± NA (NA) C:NA T:NA | pCi/L | 03/04/22 10:50 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1352

Pace Project No.: 30467365

Sample: BC02864 MW-44HO MSD **Lab ID: 30467365006** Collected: 02/09/22 10:50 Received: 02/16/22 09:35 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 91.98 %REC 15.90RPD ± NA (NA) C:NA T:NA | pCi/L | 03/11/22 14:19 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 77.41 %REC 13.56 RPD ± NA (NA) C:NA T:NA | pCi/L | 03/04/22 10:50 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORAP_1352

Pace Project No.: 30467365

QC Batch: 486655

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30467365001, 30467365002, 30467365003, 30467365004, 30467365005, 30467365006

METHOD BLANK: 2353489

Matrix: Water

Associated Lab Samples: 30467365001, 30467365002, 30467365003, 30467365004, 30467365005, 30467365006

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.511 ± 0.307 (0.554) C:83% T:86% | pCi/L | 03/04/22 10:48 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORAP_1352

Pace Project No.: 30467365

QC Batch: 485927

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30467365001, 30467365002, 30467365003, 30467365004, 30467365005, 30467365006

METHOD BLANK: 2349793

Matrix: Water

Associated Lab Samples: 30467365001, 30467365002, 30467365003, 30467365004, 30467365005, 30467365006

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-226 | 0.0728 ± 0.0744 (0.139) C:99% T:NA | pCi/L | 03/11/22 12:27 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGORAP_1352
Pace Project No.: 30467365

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1352
Pace Project No.: 30467365

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------|--------------------------|----------|-------------------|------------------|
| 30467365001 | BC02863 FB-1 | EPA 9315 | 485927 | | |
| 30467365002 | BC02864 MW-44HO | EPA 9315 | 485927 | | |
| 30467365003 | BC02865 MW-44HO DUP | EPA 9315 | 485927 | | |
| 30467365004 | BC02866 EB-1 | EPA 9315 | 485927 | | |
| 30467365005 | BC02864 MW-44HO MS | EPA 9315 | 485927 | | |
| 30467365006 | BC02864 MW-44HO MSD | EPA 9315 | 485927 | | |
| 30467365001 | BC02863 FB-1 | EPA 9320 | 486655 | | |
| 30467365002 | BC02864 MW-44HO | EPA 9320 | 486655 | | |
| 30467365003 | BC02865 MW-44HO DUP | EPA 9320 | 486655 | | |
| 30467365004 | BC02866 EB-1 | EPA 9320 | 486655 | | |
| 30467365005 | BC02864 MW-44HO MS | EPA 9320 | 486655 | | |
| 30467365006 | BC02864 MW-44HO MSD | EPA 9320 | 486655 | | |
| 30467365001 | BC02863 FB-1 | Total Radium Calculation | 490238 | | |
| 30467365002 | BC02864 MW-44HO | Total Radium Calculation | 490238 | | |
| 30467365003 | BC02865 MW-44HO DUP | Total Radium Calculation | 490238 | | |
| 30467365004 | BC02866 EB-1 | Total Radium Calculation | 490238 | | |

REPORT OF LABORATORY ANALYSIS

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Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Co

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5551 2008 1941

| | |
|------------|---------------|
| Label | <u>JA</u> |
| LIMS Login | <u>VP Inc</u> |

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue (None)

Cooler Temperature _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

| | |
|---|-------------------|
| pH paper Lot# | <u>HC169501</u> |
| Date and Initials of person examining contents: | <u>2-23-22 JA</u> |

Comments:

| | Yes | No | N/A | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|---|
| Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. |
| Sampler Name & Signature on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. |
| -Includes date/time/ID Matrix: <u>WT</u> | | | | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. |
| Short Hold Time Analysis (<72hr remaining): | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. |
| Correct Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. |
| Orthophosphate field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 12. |
| Hex Cr Aqueous sample field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 13. |
| Organic Samples checked for dechlorination: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 14. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. |
| All containers have been checked for preservation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. |
| exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | | | | <u>pH < 2</u> |
| All containers meet method preservation requirements. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>JA</u> Date/time of preservation: _____ |
| | | | | Lot # of added preservative: _____ |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 17. |
| Trip Blank Present: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 18. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Rad Samples Screened < 0.5 mrem/hr | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>JA</u> Date: <u>2-23-22</u> Survey Meter SN: <u>1563</u> |

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

MO#: 30467365
 PM: AES Due Date: 03/08/22
 CLIENT: ALABAMA PWR



Pace Greensburg Lab -Sample Container Count

WO#: 30467365

Client: Alabama Power Co
Site: Plant Gorgas Ash Pond

PM: AES Due Date: 03/08/22
CLIENT: ALABAMA POWER

Profile Number: 11788

Notes

| Sample Line Item | Matrix | AG1H | AG1S | AG1T | AG2U | AG3S | AG3U | AG5U | AG5T | BG1L | BG2U | BP1N | BP1U | BP2S | BP2U | BP3C | BP3N | BP3S | BP3U | DG9S | GCUB | VG9H | VG9T | VG9U | VOAK | WGFU | WGKU | ZPLC | |
|------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| 1 | WT | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| 2 | WT | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| 3 | WT | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| 4 | WT | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Container Codes

| Glass | |
|-------|--------------------------------|
| AG1S | 1L amber glass H2SO4 |
| AG1H | 1L amber glass HCl |
| AG1T | 1L amber glass Na Thiosulfate |
| BG1U | 1L clear glass unpreserved |
| AG3S | 250mL amber glass H2SO4 |
| AG3U | 250mL amber glass unpreserved |
| DG9S | 40mL amber VOA vial H2SO4 |
| VG9U | 40mL clear VOA vial |
| VG9T | 40mL clear VOA vial Na Thiosul |
| VG9H | 40mL clear VOA vial HCl |
| JGFU | 4oz amber wide jar |
| WGFU | 4oz wide jar unpreserved |
| BG2U | 500mL clear glass unpreserved |
| AG2U | 500mL amber glass unpreserved |
| WGKU | 8oz wide jar unpreserved |

| Plastic / Misc. | |
|-----------------|-------------------------------|
| GCUB | 1 Gallon Cubitainer |
| 12GN | 1/2 Gallon Cubitainer |
| SP5T | 120mL Coliform Na Thiosulfate |
| BP1N | 1L plastic HNO3 |
| BP1U | 1L plastic unpreserved |
| BP3S | 250mL plastic H2SO4 |
| BP3N | 250mL plastic HNO3 |
| BP3U | 250mL plastic unpreserved |
| BP3C | 250ml plastic NaOH |
| BP2S | 500mL plastic H2SO4 |
| BP2U | 500mL plastic unpreserved |
| EZI | 5g Encoife |
| VOAK | Kit for Volatile Solid |
| I | Wipe/Swab |
| ZPLC | Ziploc Bag |
| WT | Water |
| SL | Solid |
| OL | Non-aqueous liquid |
| WP | Wipe |

Quality Control Sample Performance Assessment



Test: Ra-226
 Analyst: JJC2
 Date: 2/24/2022
 Worklist: 65252
 Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2349793 |
| MB Concentration: | 0.073 |
| MB Counting Uncertainty: | 0.074 |
| MB MDC: | 0.139 |
| MB Numerical Performance Indicator: | 1.94 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCS (Y or N)? | LCS DP65252 |
|---|-----------|---------------|-------------|
| Count Date: | 3/17/2022 | | |
| Spike I.D.: | 19-033 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 24.029 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.508 | | |
| Target Conc. (pCi/L, g, F): | 4.729 | | |
| Uncertainty (Calculated): | 0.057 | | |
| Result (pCi/L, g, F): | 4.852 | | |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.464 | | |
| Numerical Performance Indicator: | 0.52 | | |
| Percent Recovery: | 102.60% | | |
| Status vs Numerical Indicator: | N/A | | |
| Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 125% | | |
| Lower % Recovery Limits: | 75% | | |

| Duplicate Sample Assessment | |
|---|--|
| Sample I.D.: | Duplicate Sample I.D.: |
| Sample Result (pCi/L, g, F): | Sample Result (pCi/L, g, F): |
| Sample Result Counting Uncertainty (pCi/L, g, F): | Sample Duplicate Result (pCi/L, g, F): |
| Sample Duplicate Result (pCi/L, g, F): | Sample Duplicate Counting Uncertainty (pCi/L, g, F): |
| Are sample and/or duplicate results below RL? | Duplicate Numerical Performance Indicator: |
| Duplicate Numerical Performance Indicator: | Duplicate RPD: |
| Duplicate Status vs Numerical Indicator: | Duplicate Status vs Numerical Indicator: |
| Duplicate Status vs RPD: | Duplicate Status vs RPD: |
| % RPD Limit: | % RPD Limit: |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|----------|
| Sample Collection Date: | 2/1/2022 | | |
| Sample I.D.: | 30465804010 | | |
| Sample MS I.D.: | 30465804024 | | |
| Sample MSD I.D.: | 30465804025 | | |
| Spike I.D.: | 19-033 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.030 | | |
| Spike Volume Used in MS (mL): | 0.20 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.251 | | |
| MS Target Conc. (pCi/L, g, F): | 19.115 | | |
| MSD Aliquot (L, g, F): | 0.255 | | |
| MSD Target Conc. (pCi/L, g, F): | 18.846 | | |
| MSD Spike Uncertainty (calculated): | 0.229 | | |
| MSD Spike Uncertainty (calculated): | 0.226 | | |
| Sample Result: | 0.117 | | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.168 | | |
| Sample Matrix Spike Result: | 19.262 | | |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 1.304 | | |
| Sample Matrix Spike Duplicate Result: | 17.231 | | |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.289 | | |
| MS Numerical Performance Indicator: | -0.115 | | |
| MSD Numerical Performance Indicator: | -2.734 | | |
| MS Percent Recovery: | 99.58% | | |
| MSD Percent Recovery: | 90.23% | | |
| MS Status vs Numerical Indicator: | N/A | | |
| MSD Status vs Numerical Indicator: | N/A | | |
| MS Status vs Recovery: | Pass | | |
| MSD Status vs Recovery: | Pass | | |
| MS/MSD Upper % Recovery Limits: | 125% | | |
| MS/MSD Lower % Recovery Limits: | 75% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30465804010 |
| Sample MS I.D.: | 30465804024 |
| Sample MSD I.D.: | 30465804025 |
| Sample Matrix Spike Result: | 19.262 |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 1.304 |
| Sample Matrix Spike Duplicate Result: | 17.231 |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.289 |
| Duplicate Numerical Performance Indicator: | 2.172 |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 9.98% |
| MS/MSD Duplicate Status vs Numerical Indicator: | N/A |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

See Below ##

02/24/2022

WAM 3/14/22

Quality Control Sample Performance Assessment



Test: Ra-226
 Analyst: JIC2
 Date: 2/24/2022
 Worklist: 65252
 Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2349793 |
| MB Concentration: | 0.073 |
| MB Counting Uncertainty: | 0.074 |
| MB MDC: | 0.139 |
| MB Numerical Performance Indicator: | 1.94 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs MDC: | Pass |

| Laboratory Control Sample Assessment | | LCSD (Y or N)? | LCSD65252 |
|---|-----------|----------------|-----------|
| Count Date: | 3/11/2022 | | N |
| Spike I.D.: | 19-033 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 24.029 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.508 | | |
| Target Conc. (pCi/L, g, F): | 4.729 | | |
| Uncertainty (Calculated): | 0.057 | | |
| Result (pCi/L, g, F): | 4.852 | | |
| LCSD Counting Uncertainty (pCi/L, g, F): | 0.464 | | |
| Numerical Performance Indicator: | 0.52 | | |
| Percent Recovery: | 102.60% | | |
| Status vs Numerical Indicator: | N/A | | |
| Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 125% | | |
| Lower % Recovery Limits: | 75% | | |

| Duplicate Sample Assessment | |
|--|--|
| Sample I.D.: | Duplicate Sample I.D.: |
| Sample Result (pCi/L, g, F): | Sample Result (pCi/L, g, F): |
| Sample Result Counting Uncertainty (pCi/L, g, F): | Sample Result Counting Uncertainty (pCi/L, g, F): |
| Sample Duplicate Result (pCi/L, g, F): | Sample Duplicate Result (pCi/L, g, F): |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | Sample Duplicate Counting Uncertainty (pCi/L, g, F): |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|----------|
| Sample Collection Date: | 2/9/2022 | | |
| Sample I.D.: | 30467365002 | | |
| Sample MS I.D.: | 30467365005 | | |
| Sample MSD I.D.: | 30467365006 | | |
| Spike I.D.: | 19-033 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.030 | | |
| Spike Volume Used in MS (mL): | 0.20 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.253 | | |
| MS Target Conc. (pCi/L, g, F): | 19.016 | | |
| MSD Aliquot (L, g, F): | 0.251 | | |
| MSD Target Conc. (pCi/L, g, F): | 19.134 | | |
| MS Spike Uncertainty (calculated): | 0.228 | | |
| MSD Spike Uncertainty (calculated): | 0.230 | | |
| Sample Result: | 0.139 | | |
| Sample Matrix Spike Result: | 0.153 | | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 20.661 | | |
| Sample Matrix Spike Result: | 1.359 | | |
| Sample Matrix Spike Duplicate Result: | 17.738 | | |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.289 | | |
| MS Numerical Performance Indicator: | 2.114 | | |
| MSD Numerical Performance Indicator: | -2.317 | | |
| MS Percent Recovery: | 107.87% | | |
| MSD Percent Recovery: | 91.98% | | |
| MS Status vs Numerical Indicator: | N/A | | |
| MSD Status vs Numerical Indicator: | N/A | | |
| MS Status vs Recovery: | Pass | | |
| MSD Status vs Recovery: | Pass | | |
| MS/MSD Upper % Recovery Limits: | 125% | | |
| MS/MSD Lower % Recovery Limits: | 75% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30467365002 |
| Sample MS I.D.: | 30467365005 |
| Sample MSD I.D.: | 30467365006 |
| Sample Matrix Spike Result: | 20.651 |
| Sample Matrix Spike Duplicate Result: | 17.738 |
| Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): | 1.359 |
| Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): | 1.269 |
| Duplicate Numerical Performance Indicator: | 3.071 |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 15.90% |
| MS/MSD Duplicate Status vs Numerical Indicator: | N/A |
| MS/MSD Duplicate Status vs RPD: | Pass |
| MS/MSD Duplicate Status vs RPD: | 25% |
| % RPD Limit: | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.
 Comments:

3/11/22

3/11/22



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/2/2022
Worklist: 65308
Matrix: W1

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2353489 |
| MB concentration: | 0.511 |
| MB 2 Sigma CSU: | 0.307 |
| MB MDC: | 0.554 |
| MB Numerical Performance Indicator: | 3.27 |
| MB Status vs Numerical Indicator: | Fail |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCSD (Y or N)? | N |
|---|----------|----------------|-----------|
| Count Date: | 3/4/2022 | LCSD65308 | LCSD65308 |
| Spike ID: | 21-029 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 36.128 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.817 | | |
| Target Conc. (pCi/L, g, F): | 4.421 | | |
| Uncertainty (Calculated): | 0.217 | | |
| Result (pCi/L, g, F): | 3.377 | | |
| LCSD/CSU 2 Sigma CSU (pCi/L, g, F): | 0.855 | | |
| Numerical Performance Indicator: | -2.32 | | |
| Percent Recovery: | 76.38% | | |
| Status vs Numerical Indicator: | N/A | | |
| Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 135% | | |
| Lower % Recovery Limits: | 60% | | |

| Duplicate Sample Assessment | | Enter Duplicate Sample IDs if other than LCSD/CSU in the space below: |
|--|--|---|
| Sample I.D.: | Duplicate Sample I.D.: | |
| Sample Result (pCi/L, g, F): | Sample Result (pCi/L, g, F): | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | Sample Result 2 Sigma CSU (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | Duplicate Numerical Performance Indicator: | |
| Duplicate Numerical Performance Indicator: | Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | Duplicate Status vs RPD: | |
| % RPD Limit: | % RPD Limit: | |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|----------|
| Sample Collection Date: | 2/1/2022 | | |
| Sample I.D.: | 30465804010 | | |
| Sample MS I.D.: | 30465804024 | | |
| Sample MSD I.D.: | 30465804025 | | |
| Spike I.D.: | 21-029 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 36.499 | | |
| Spike Volume Used in MS (mL): | 0.20 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.803 | | |
| MS Target Conc. (pCi/L, g, F): | 9.095 | | |
| MSD Aliquot (L, g, F): | 0.816 | | |
| MSD Target Conc. (pCi/L, g, F): | 8.951 | | |
| MS Spike Uncertainty (calculated): | 0.446 | | |
| MSD Spike Uncertainty (calculated): | 0.439 | | |
| MS/MSD Upper % Recovery Limits: | 0.524 | | |
| MS/MSD Lower % Recovery Limits: | 0.338 | | |
| Sample Result: | 7.740 | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 1.677 | | |
| Sample Matrix Spike Result: | 8.256 | | |
| Sample Matrix Spike Duplicate Result: | 1.682 | | |
| MS Numerical Performance Indicator: | -2.083 | | |
| MSD Numerical Performance Indicator: | -1.348 | | |
| MS Percent Recovery: | 79.39% | | |
| MSD Percent Recovery: | 86.39% | | |
| MS Status vs Numerical Indicator: | Warning | | |
| MSD Status vs Numerical Indicator: | Pass | | |
| MS Status vs Recovery: | Pass | | |
| MSD Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 135% | | |
| Lower % Recovery Limits: | 60% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | | Sample I.D. | Sample MS I.D. | Sample MSD I.D. |
|--|--|-------------|----------------|-----------------|
| Sample I.D.: | Duplicate Sample I.D.: | 30465804010 | | |
| Sample Result (pCi/L, g, F): | Sample Result (pCi/L, g, F): | 30465804024 | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | Sample Result 2 Sigma CSU (pCi/L, g, F): | 30465804025 | | |
| Sample Duplicate Result (pCi/L, g, F): | Sample Duplicate Result (pCi/L, g, F): | 7.740 | | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.677 | | |
| Matrix Spike Duplicate Result (pCi/L, g, F): | Matrix Spike Duplicate Result (pCi/L, g, F): | 8.256 | | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.682 | | |
| Duplicate Numerical Performance Indicator: | Duplicate Numerical Performance Indicator: | -0.426 | | |
| Duplicate RPD: | Duplicate RPD: | 8.50% | | |
| Duplicate Status vs Numerical Indicator: | Duplicate Status vs Numerical Indicator: | Pass | | |
| Duplicate Status vs RPD: | Duplicate Status vs RPD: | Pass | | |
| % RPD Limit: | % RPD Limit: | 36% | | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepped.

243/8/22

3/1/22

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative



Gorgas Ash Pond

MW-33HO, MW-34HO & MW-35HO 2022 Event 1

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

High winds resulted in dusty conditions when pumping and sampling well MW-34HO.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWGORAP_1351

Project/Site : Gorgas Ash Pond
Parrish, AL 35580

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Laura Midkiff
lbmidkif@southernco.com
(205) 664-6197

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
(205) 664-6001



March 23, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on February 09, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Laura Midkiff**
Digitally signed by Laura Midkiff
DN: cn=Laura Midkiff, o=Alabama Power
Company, ou=Environmental Affairs,
email=lmidkif@southernco.com, c=US
Date: 2022.03.23 09:34:36 -0500

Supervision: **T. Durant Maske**
Digitally signed by T. Durant Maske
DN: cn=T. Durant Maske, o=Alabama
Power Company, ou=Environmental
Affairs, email=tdmaske@southernco.com,
c=US
Date: 2022.03.29 12:42:47 -0500



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Total Metals ICP

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02847 | 718179 | WMWGORAP_1351 |
| BC02848 | 718179 | WMWGORAP_1351 |
| BC02849 | 718179 | WMWGORAP_1351 |
| BC02850 | 718179 | WMWGORAP_1351 |
| BC02851 | 718179 | WMWGORAP_1351 |
| BC02852 | 718179 | WMWGORAP_1351 |

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BC02852 Calcium & Sodium MS/MSD spike levels were <30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|------------------|------------------------|
| BC02847 | Sodium | 10.15 |
| BC02849 | Sodium | 10.15 |
| BC02850 | Sodium | 10.15 |
| BC02852 | Sodium & Calcium | 101.5 |

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02847 | 718140 | WMWGORAP_1351 |
| BC02849 | 718140 | WMWGORAP_1351 |
| BC02850 | 718140 | WMWGORAP_1351 |
| BC02852 | 718140 | WMWGORAP_1351 |

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BC02852 Sodium & Calcium MS/MSD spike levels were <30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|-----------------|------------------------|
| BC02847 | Sodium | 10.15 |
| BC02849 | Sodium | 10.15 |
| BC02850 | Sodium | 10.15 |
| BC02852 | Sodium, Calcium | 101.5 |

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02847 | 718942 | WMWGORAP_1351 |
| BC02848 | 718942 | WMWGORAP_1351 |
| BC02849 | 718942 | WMWGORAP_1351 |
| BC02850 | 718942 | WMWGORAP_1351 |
| BC02851 | 718942 | WMWGORAP_1351 |
| BC02852 | 718942 | WMWGORAP_1351 |

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02847 | 718600 | WMWGORAP_1351 |
| BC02849 | 718600 | WMWGORAP_1351 |
| BC02850 | 718600 | WMWGORAP_1351 |
| BC02852 | 718600 | WMWGORAP_1351 |

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Mercury

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02847 | 718432 | WMWGORAP_1351 |
| BC02848 | 718432 | WMWGORAP_1351 |
| BC02849 | 718432 | WMWGORAP_1351 |
| BC02850 | 718432 | WMWGORAP_1351 |
| BC02851 | 718432 | WMWGORAP_1351 |
| BC02852 | 718432 | WMWGORAP_1351 |

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

TDS

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02847 | 717995 | WMWGORAP_1351 |
| BC02848 | 717995 | WMWGORAP_1351 |
| BC02849 | 717995 | WMWGORAP_1351 |
| BC02850 | 717995 | WMWGORAP_1351 |
| BC02851 | 717995 | WMWGORAP_1351 |
| BC02852 | 717995 | WMWGORAP_1351 |

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC02848
 - BC02851

Anions

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|------------------------|-------------------|
| BC02847 | 718480, 718049, 718272 | WMWGORAP_1351 |
| BC02848 | 718480, 718049, 718272 | WMWGORAP_1351 |
| BC02849 | 718480, 718049, 718272 | WMWGORAP_1351 |
| BC02850 | 718480, 718049, 718272 | WMWGORAP_1351 |
| BC02851 | 718480, 718049, 718272 | WMWGORAP_1351 |
| BC02852 | 718480, 718049, 718272 | WMWGORAP_1351 |

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met.
 - A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|--------------------|------------------------|
| BC02847 | Chloride & Sulfate | 5 & 4 |
| BC02852 | Chloride & Sulfate | 100 & 80 |

8. The raw data results are shown with dilution factors included.

Case Narrative

Alkalinity

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02847 | 719022 & 719023 | WMWGORAP_1351 |
| BC02849 | 719022 & 719023 | WMWGORAP_1351 |
| BC02850 | 719022 & 719023 | WMWGORAP_1351 |
| BC02852 | 719022 & 719023 | WMWGORAP_1351 |

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Nitrate-Nitrite

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02847 | 718731 | WMWGORAP_1351 |
| BC02848 | 718731 | WMWGORAP_1351 |
| BC02849 | 718731 | WMWGORAP_1351 |
| BC02850 | 718731 | WMWGORAP_1351 |
| BC02851 | 718731 | WMWGORAP_1351 |
| BC02852 | 718731 | WMWGORAP_1351 |

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Gorgas Ash Pond

WMWGORAP_1351

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC02847 | 718461 | WMWGORAP_1351 |
| BC02848 | 718461 | WMWGORAP_1351 |
| BC02849 | 718461 | WMWGORAP_1351 |
| BC02850 | 718461 | WMWGORAP_1351 |
| BC02851 | 718461 | WMWGORAP_1351 |
| BC02852 | 718461 | WMWGORAP_1351 |

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was $<1/2RL$.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were $<1/2RL$.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-33HO

Location Code: WMWGORAP
Collected: 2/9/22 09:45
Customer ID:
Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02847

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 12:03 | | 1.015 | 0.0416 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 12:03 | | 1.015 | 25.2 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 12:03 | | 1.015 | 0.0853 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 12:03 | | 1.015 | 0.0517 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 12:03 | | 1.015 | 10.4 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 12:03 | | 1 | 18.9 | mg/L | | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 12:03 | | 1.015 | 8.83 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:44 | | 10.15 | 124 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:43 | | 1.015 | 0.0411 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:43 | | 1.015 | 26.5 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:43 | | 1.015 | 0.0754 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:43 | | 1.015 | 0.0489 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:43 | | 1.015 | 10.1 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:43 | | 1 | 18.8 | mg/L | | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:43 | | 1.015 | 8.80 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 12:57 | | 10.15 | 119 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | 0.00561 | mg/L | 0.004060 | 0.01015 | J | |
| * Arsenic, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | 0.000871 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | 0.483 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | 0.000263 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | 0.0502 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | 0.00513 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | 7.40 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-33HO

Location Code: WMWGORAP
Collected: 2/9/22 09:45
Customer ID:
Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02847

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:25 | 2/18/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | 0.00431 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | 0.000694 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | 0.449 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | 0.000222 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | 0.0471 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | 0.00414 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | 7.07 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 12:00 | 2/16/22 13:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/15/22 17:19 | 2/15/22 21:29 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/17/22 11:45 | 2/17/22 11:45 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 247 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/11/22 12:35 | 2/14/22 13:44 | | 1 | 471 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 246 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 1.06 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/15/22 11:18 | 2/15/22 11:18 | | 1 | 3.74 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-33HO

Location Code: WMWGORAP

Collected: 2/9/22 09:45

Customer ID:

Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02847

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 08:58 | 2/16/22 08:58 | | 5 | 68.9 | mg/L | 2.50 | 5 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:42 | 2/10/22 16:42 | | 1 | 0.131 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:41 | 2/14/22 15:41 | | 4 | 77.8 | mg/L | 2.00 | 4 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/9/22 09:42 | 2/9/22 09:42 | | | 832.18 | uS/cm | | | FA |
| pH | 2/9/22 09:42 | 2/9/22 09:42 | | | 7.64 | SU | | | FA |
| Temperature | 2/9/22 09:42 | 2/9/22 09:42 | | | 15.19 | C | | | FA |
| Turbidity | 2/9/22 09:42 | 2/9/22 09:42 | | | 1.92 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 09:45

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-33HO

Laboratory ID Number: BC02847

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC02852 | Aluminum, Dissolved | mg/L | -0.000374 | 0.010 | 0.100 | 0.100 | 0.101 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC02852 | Aluminum, Total | mg/L | 0.000733 | 0.010 | 0.100 | 0.104 | 0.108 | 0.102 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 3.77 | 20.0 |
| BC02852 | Antimony, Dissolved | mg/L | 0.000203 | 0.00100 | 0.100 | 0.101 | 0.0998 | 0.0924 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC02852 | Antimony, Total | mg/L | 0.000272 | 0.00100 | 0.100 | 0.104 | 0.106 | 0.0940 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC02852 | Arsenic, Dissolved | mg/L | 0.000042 | 0.000176 | 0.100 | 0.0997 | 0.0989 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.806 | 20.0 |
| BC02852 | Arsenic, Total | mg/L | 0.0000123 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.162 | 0.156 | 0.0970 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 3.77 | 20.0 |
| BC02852 | Barium, Total | mg/L | -0.0000515 | 0.000200 | 0.100 | 0.166 | 0.171 | 0.0977 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.97 | 20.0 |
| BC02852 | Beryllium, Dissolved | mg/L | 0.000201 | 0.000880 | 0.100 | 0.102 | 0.100 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC02852 | Beryllium, Total | mg/L | 0.000156 | 0.000880 | 0.100 | 0.103 | 0.104 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC02852 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.16 | 1.16 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Boron, Total | mg/L | -0.000505 | 0.0650 | 1.00 | 1.17 | 1.17 | 1.02 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Cadmium, Dissolved | mg/L | 0.0000108 | 0.000147 | 0.100 | 0.101 | 0.0971 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.94 | 20.0 |
| BC02852 | Cadmium, Total | mg/L | 0.000005 | 0.000147 | 0.100 | 0.0987 | 0.103 | 0.105 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 4.26 | 20.0 |
| BC02852 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 105 | 116 | 4.85 | 4.25 to 5.75 | 146 | 70.0 to 130 | 9.95 | 20.0 |
| BC02852 | Calcium, Total | mg/L | 0.00159 | 0.152 | 5.00 | 113 | 113 | 4.85 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Chromium, Dissolved | mg/L | -0.0000228 | 0.000440 | 0.100 | 0.0981 | 0.0981 | 0.102 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Chromium, Total | mg/L | 0.0000205 | 0.000440 | 0.100 | 0.0999 | 0.103 | 0.104 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 3.06 | 20.0 |
| BC02852 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.100 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC02852 | Cobalt, Total | mg/L | 0.00001 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC02852 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.843 | 0.839 | 0.202 | 0.170 to 0.230 | 94.0 | 70.0 to 130 | 0.476 | 20.0 |
| BC02852 | Iron, Total | mg/L | -0.000195 | 0.0176 | 0.2 | 0.956 | 0.961 | 0.199 | 0.170 to 0.230 | 91.0 | 70.0 to 130 | 0.522 | 20.0 |
| BC02852 | Lead, Dissolved | mg/L | 0.0000127 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.108 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02852 | Lead, Total | mg/L | 0.000007 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 09:45

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-33HO

Laboratory ID Number: BC02847

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02852 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.382 | 0.390 | 0.202 | 0.170 to 0.230 | 104 | 70.0 to 130 | 2.07 | 20.0 |
| BC02852 | Lithium, Total | mg/L | -0.000069 | 0.0154 | 0.200 | 0.410 | 0.408 | 0.197 | 0.170 to 0.230 | 112 | 70.0 to 130 | 0.489 | 20.0 |
| BC02852 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 35.6 | 36.0 | 5.13 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC02852 | Magnesium, Total | mg/L | 0.00626 | 0.0462 | 5.00 | 37.2 | 37.3 | 5.02 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.268 | 20.0 |
| BC02852 | Manganese, Dissolved | mg/L | -0.0000656 | 0.0002 | 0.100 | 0.356 | 0.362 | 0.103 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.67 | 20.0 |
| BC02852 | Manganese, Total | mg/L | 0.0000193 | 0.0002 | 0.100 | 0.376 | 0.387 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.88 | 20.0 |
| BC02852 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00393 | 0.00395 | 0.00391 | 0.00340 to 0.00460 | 98.2 | 70.0 to 130 | 0.508 | 20.0 |
| BC02852 | Molybdenum, Dissolved | mg/L | 0.0000141 | 0.0002 | 0.100 | 0.0990 | 0.0987 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.303 | 20.0 |
| BC02852 | Molybdenum, Total | mg/L | 0.0000249 | 0.0002 | 0.100 | 0.113 | 0.111 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.79 | 20.0 |
| BC02852 | Potassium, Dissolved | mg/L | 0.00869 | 0.367 | 10.0 | 75.9 | 77.5 | 10.1 | 8.50 to 11.5 | 84.0 | 70.0 to 130 | 2.09 | 20.0 |
| BC02852 | Potassium, Total | mg/L | 0.00769 | 0.367 | 10.0 | 78.5 | 81.3 | 10.5 | 8.50 to 11.5 | 84.0 | 70.0 to 130 | 3.50 | 20.0 |
| BC02852 | Selenium, Dissolved | mg/L | 0.0000444 | 0.00100 | 0.100 | 0.0963 | 0.0948 | 0.104 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 1.57 | 20.0 |
| BC02852 | Selenium, Total | mg/L | 0.0000021 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.108 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC02852 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 6.44 | 6.42 | 1.04 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.311 | 20.0 |
| BC02852 | Silicon, Total | mg/L | 0.000099 | 0.0440 | 1.00 | 6.48 | 6.51 | 1.02 | 0.850 to 1.15 | 91.0 | 70.0 to 130 | 0.462 | 20.0 |
| BC02852 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 837 | 882 | 5.06 | 4.25 to 5.75 | -240 | 70.0 to 130 | 5.24 | 20.0 |
| BC02852 | Sodium, Total | mg/L | 0.00888 | 0.0660 | 5.00 | 921 | 918 | 4.85 | 4.25 to 5.75 | 700 | 70.0 to 130 | 0.326 | 20.0 |
| BC02852 | Thallium, Dissolved | mg/L | 0.0000024 | 0.000147 | 0.100 | 0.100 | 0.100 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Thallium, Total | mg/L | 0.0000061 | 0.000147 | 0.100 | 0.113 | 0.112 | 0.113 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.889 | 20.0 |
| BC02852 | Total Organic Carbon | mg/L | 0.330 | 1.00 | 10.0 | 19.6 | 20.3 | 24.4 | | 104 | 80.0 to 120 | 3.51 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 09:45

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-33HO

Laboratory ID Number: BC02847

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|----------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02852 | Alkalinity, Total as CaCO3 | mg/L | | | | | 194 | 50.7 | 45.0 to 55.0 | | | 0.514 | 10.0 |
| BC02852 | Chloride | mg/L | -0.0516 | 1.00 | 1000 | 1370 | 385 | 10.2 | 9.00 to 11.0 | 97.8 | 80.0 to 120 | 1.80 | 20.0 |
| BC02852 | Fluoride | mg/L | -0.00752 | 0.125 | 2.50 | 2.86 | 0.242 | 2.66 | 2.25 to 2.75 | 103 | 80.0 to 120 | 18.4 | 20.0 |
| BC02852 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.07 | 0.200 | 2.00 | 2.06 | 0.072 | 1.94 | 1.80 to 2.20 | 103 | 90.0 to 110 | 0.00 | 15.0 |
| BC02852 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 3120 | 46.0 | 40.0 to 60.0 | | | 0.320 | 10.0 |
| BC02852 | Sulfate | mg/L | -0.206 | 2.0 | 1600 | 3170 | 1560 | 19.8 | 18.0 to 22.0 | 100 | 80.0 to 120 | 0.639 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB
Collected: 2/9/22 10:50
Customer ID:
Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02848

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 12:05 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 12:05 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 12:05 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 12:05 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 12:05 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 12:05 | | 1 | Not Detected | mg/L | | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 12:05 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 12:05 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U | |
| * Arsenic, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Barium, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U | |
| * Beryllium, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | 0.000304 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Molybdenum, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Potassium, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U | |
| * Selenium, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Thallium, Total | 2/16/22 10:25 | 2/18/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | | |
| * Mercury, Total by CVAA | 2/15/22 17:19 | 2/15/22 21:33 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U | |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/17/22 11:47 | 2/17/22 11:47 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | | |
| * Solids, Dissolved | 2/11/22 12:35 | 2/14/22 13:44 | | 1 | Not Detected | mg/L | | 25 | U | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB

Collected: 2/9/22 10:50

Customer ID:

Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02848

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/15/22 11:35 | 2/15/22 11:35 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 08:59 | 2/16/22 08:59 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:44 | 2/10/22 16:44 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:42 | 2/14/22 15:42 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/9/22 10:50

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC02848

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02852 | Aluminum, Total | mg/L | 0.000733 | 0.010 | 0.100 | 0.104 | 0.108 | 0.102 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 3.77 | 20.0 |
| BC02852 | Antimony, Total | mg/L | 0.000272 | 0.00100 | 0.100 | 0.104 | 0.106 | 0.0940 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC02852 | Arsenic, Total | mg/L | 0.0000123 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Barium, Total | mg/L | -0.0000515 | 0.000200 | 0.100 | 0.166 | 0.171 | 0.0977 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.97 | 20.0 |
| BC02852 | Beryllium, Total | mg/L | 0.000156 | 0.000880 | 0.100 | 0.103 | 0.104 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC02852 | Boron, Total | mg/L | -0.000505 | 0.0650 | 1.00 | 1.17 | 1.17 | 1.02 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Cadmium, Total | mg/L | 0.000005 | 0.000147 | 0.100 | 0.0987 | 0.103 | 0.105 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 4.26 | 20.0 |
| BC02852 | Calcium, Total | mg/L | 0.00159 | 0.152 | 5.00 | 113 | 113 | 4.85 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Chromium, Total | mg/L | 0.0000205 | 0.000440 | 0.100 | 0.0999 | 0.103 | 0.104 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 3.06 | 20.0 |
| BC02852 | Cobalt, Total | mg/L | 0.00001 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC02852 | Iron, Total | mg/L | -0.000195 | 0.0176 | 0.2 | 0.956 | 0.961 | 0.199 | 0.170 to 0.230 | 91.0 | 70.0 to 130 | 0.522 | 20.0 |
| BC02852 | Lead, Total | mg/L | 0.000007 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC02852 | Lithium, Total | mg/L | -0.000069 | 0.0154 | 0.200 | 0.410 | 0.408 | 0.197 | 0.170 to 0.230 | 112 | 70.0 to 130 | 0.489 | 20.0 |
| BC02852 | Magnesium, Total | mg/L | 0.00626 | 0.0462 | 5.00 | 37.2 | 37.3 | 5.02 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.268 | 20.0 |
| BC02852 | Manganese, Total | mg/L | 0.0000193 | 0.0002 | 0.100 | 0.376 | 0.387 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.88 | 20.0 |
| BC02852 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00393 | 0.00395 | 0.00391 | 0.00340 to 0.00460 | 98.2 | 70.0 to 130 | 0.508 | 20.0 |
| BC02852 | Molybdenum, Total | mg/L | 0.0000249 | 0.0002 | 0.100 | 0.113 | 0.111 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.79 | 20.0 |
| BC02852 | Potassium, Total | mg/L | 0.00769 | 0.367 | 10.0 | 78.5 | 81.3 | 10.5 | 8.50 to 11.5 | 84.0 | 70.0 to 130 | 3.50 | 20.0 |
| BC02852 | Selenium, Total | mg/L | 0.0000021 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.108 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC02852 | Silicon, Total | mg/L | 0.000099 | 0.0440 | 1.00 | 6.48 | 6.51 | 1.02 | 0.850 to 1.15 | 91.0 | 70.0 to 130 | 0.462 | 20.0 |
| BC02852 | Sodium, Total | mg/L | 0.00888 | 0.0660 | 5.00 | 921 | 918 | 4.85 | 4.25 to 5.75 | 700 | 70.0 to 130 | 0.326 | 20.0 |
| BC02852 | Thallium, Total | mg/L | 0.0000061 | 0.000147 | 0.100 | 0.113 | 0.112 | 0.113 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.889 | 20.0 |
| BC02852 | Total Organic Carbon | mg/L | 0.330 | 1.00 | 10.0 | 19.6 | 20.3 | 24.4 | | 104 | 80.0 to 120 | 3.51 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 2/9/22 10:50

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC02848

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|----------|-------------|-------|------|---------------------|----------|-------------------|------|--------------|-------|---------------|
| BC02852 | Chloride | mg/L | -0.0516 | 1.00 | 1000 | 1370 | 385 | 10.2 | 9.00 to 11.0 | 97.8 | 80.0 to 120 | 1.80 | 20.0 |
| BC02852 | Fluoride | mg/L | -0.00752 | 0.125 | 2.50 | 2.86 | 0.242 | 2.66 | 2.25 to 2.75 | 103 | 80.0 to 120 | 18.4 | 20.0 |
| BC02852 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.07 | 0.200 | 2.00 | 2.06 | 0.072 | 1.94 | 1.80 to 2.20 | 103 | 90.0 to 110 | 0.00 | 15.0 |
| BC02852 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 3120 | 46.0 | 40.0 to 60.0 | | | 0.320 | 10.0 |
| BC02852 | Sulfate | mg/L | -0.206 | 2.0 | 1600 | 3170 | 1560 | 19.8 | 18.0 to 22.0 | 100 | 80.0 to 120 | 0.639 | 20.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-35HO

Location Code: WMWGORAP
Collected: 2/9/22 11:46
Customer ID:
Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02849

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 12:07 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 12:07 | | 1.015 | 2.11 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 12:07 | | 1.015 | 0.0283 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 12:07 | | 1.015 | 0.0673 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 12:07 | | 1.015 | 0.519 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 12:07 | | 1 | 18.9 | mg/L | | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 12:07 | | 1.015 | 8.84 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:46 | | 10.15 | 119 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:45 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:45 | | 1.015 | 2.16 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:45 | | 1.015 | 0.0145 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:45 | | 1.015 | 0.0622 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:45 | | 1.015 | 0.479 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:45 | | 1 | 19.0 | mg/L | | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:45 | | 1.015 | 8.90 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 12:59 | | 10.15 | 119 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | 0.0210 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | 0.000192 | mg/L | 0.000068 | 0.000203 | J | |
| * Barium, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | 0.0516 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | 0.000286 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | 0.00618 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | 0.00175 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | 2.15 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-35HO

Location Code: WMWGORAP
Collected: 2/9/22 11:46
Customer ID:
Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02849

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:25 | 2/18/22 12:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | 0.00729 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | 0.000200 | mg/L | 0.000068 | 0.000203 | J |
| * Barium, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | 0.0499 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | 0.00588 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | 0.00178 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | 2.06 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 12:00 | 2/16/22 13:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/15/22 17:19 | 2/15/22 21:37 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/17/22 11:47 | 2/17/22 11:47 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 241 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/11/22 12:35 | 2/14/22 13:44 | | 1 | 322 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 235 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 5.68 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/15/22 11:54 | 2/15/22 11:54 | | 1 | 1.02 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-35HO

Location Code: WMWGORAP

Collected: 2/9/22 11:46

Customer ID:

Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02849

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:00 | 2/16/22 09:00 | | 1 | 17.5 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:45 | 2/10/22 16:45 | | 1 | 0.119 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:43 | 2/14/22 15:43 | | 1 | 21.7 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/9/22 11:43 | 2/9/22 11:43 | | | 545.36 | uS/cm | | | FA |
| pH | 2/9/22 11:43 | 2/9/22 11:43 | | | 8.55 | SU | | | FA |
| Temperature | 2/9/22 11:43 | 2/9/22 11:43 | | | 17.16 | C | | | FA |
| Turbidity | 2/9/22 11:43 | 2/9/22 11:43 | | | 1.98 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 11:46

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-35HO

Laboratory ID Number: BC02849

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02852 | Aluminum, Dissolved | mg/L | -0.000374 | 0.010 | 0.100 | 0.100 | 0.101 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC02852 | Aluminum, Total | mg/L | 0.000733 | 0.010 | 0.100 | 0.104 | 0.108 | 0.102 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 3.77 | 20.0 |
| BC02852 | Antimony, Dissolved | mg/L | 0.000203 | 0.00100 | 0.100 | 0.101 | 0.0998 | 0.0924 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC02852 | Antimony, Total | mg/L | 0.000272 | 0.00100 | 0.100 | 0.104 | 0.106 | 0.0940 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC02852 | Arsenic, Dissolved | mg/L | 0.000042 | 0.000176 | 0.100 | 0.0997 | 0.0989 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.806 | 20.0 |
| BC02852 | Arsenic, Total | mg/L | 0.0000123 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.162 | 0.156 | 0.0970 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 3.77 | 20.0 |
| BC02852 | Barium, Total | mg/L | -0.0000515 | 0.000200 | 0.100 | 0.166 | 0.171 | 0.0977 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.97 | 20.0 |
| BC02852 | Beryllium, Dissolved | mg/L | 0.000201 | 0.000880 | 0.100 | 0.102 | 0.100 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC02852 | Beryllium, Total | mg/L | 0.000156 | 0.000880 | 0.100 | 0.103 | 0.104 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC02852 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.16 | 1.16 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Boron, Total | mg/L | -0.000505 | 0.0650 | 1.00 | 1.17 | 1.17 | 1.02 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Cadmium, Dissolved | mg/L | 0.0000108 | 0.000147 | 0.100 | 0.101 | 0.0971 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.94 | 20.0 |
| BC02852 | Cadmium, Total | mg/L | 0.000005 | 0.000147 | 0.100 | 0.0987 | 0.103 | 0.105 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 4.26 | 20.0 |
| BC02852 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 105 | 116 | 4.85 | 4.25 to 5.75 | 146 | 70.0 to 130 | 9.95 | 20.0 |
| BC02852 | Calcium, Total | mg/L | 0.00159 | 0.152 | 5.00 | 113 | 113 | 4.85 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Chromium, Dissolved | mg/L | -0.0000228 | 0.000440 | 0.100 | 0.0981 | 0.0981 | 0.102 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Chromium, Total | mg/L | 0.0000205 | 0.000440 | 0.100 | 0.0999 | 0.103 | 0.104 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 3.06 | 20.0 |
| BC02852 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.100 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC02852 | Cobalt, Total | mg/L | 0.00001 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC02852 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.843 | 0.839 | 0.202 | 0.170 to 0.230 | 94.0 | 70.0 to 130 | 0.476 | 20.0 |
| BC02852 | Iron, Total | mg/L | -0.000195 | 0.0176 | 0.2 | 0.956 | 0.961 | 0.199 | 0.170 to 0.230 | 91.0 | 70.0 to 130 | 0.522 | 20.0 |
| BC02852 | Lead, Dissolved | mg/L | 0.0000127 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.108 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02852 | Lead, Total | mg/L | 0.000007 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 11:46

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-35HO

Laboratory ID Number: BC02849

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02852 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.382 | 0.390 | 0.202 | 0.170 to 0.230 | 104 | 70.0 to 130 | 2.07 | 20.0 |
| BC02852 | Lithium, Total | mg/L | -0.000069 | 0.0154 | 0.200 | 0.410 | 0.408 | 0.197 | 0.170 to 0.230 | 112 | 70.0 to 130 | 0.489 | 20.0 |
| BC02852 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 35.6 | 36.0 | 5.13 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC02852 | Magnesium, Total | mg/L | 0.00626 | 0.0462 | 5.00 | 37.2 | 37.3 | 5.02 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.268 | 20.0 |
| BC02852 | Manganese, Dissolved | mg/L | -0.0000656 | 0.0002 | 0.100 | 0.356 | 0.362 | 0.103 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.67 | 20.0 |
| BC02852 | Manganese, Total | mg/L | 0.0000193 | 0.0002 | 0.100 | 0.376 | 0.387 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.88 | 20.0 |
| BC02852 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00393 | 0.00395 | 0.00391 | 0.00340 to 0.00460 | 98.2 | 70.0 to 130 | 0.508 | 20.0 |
| BC02852 | Molybdenum, Dissolved | mg/L | 0.0000141 | 0.0002 | 0.100 | 0.0990 | 0.0987 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.303 | 20.0 |
| BC02852 | Molybdenum, Total | mg/L | 0.0000249 | 0.0002 | 0.100 | 0.113 | 0.111 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.79 | 20.0 |
| BC02852 | Potassium, Dissolved | mg/L | 0.00869 | 0.367 | 10.0 | 75.9 | 77.5 | 10.1 | 8.50 to 11.5 | 84.0 | 70.0 to 130 | 2.09 | 20.0 |
| BC02852 | Potassium, Total | mg/L | 0.00769 | 0.367 | 10.0 | 78.5 | 81.3 | 10.5 | 8.50 to 11.5 | 84.0 | 70.0 to 130 | 3.50 | 20.0 |
| BC02852 | Selenium, Dissolved | mg/L | 0.0000444 | 0.00100 | 0.100 | 0.0963 | 0.0948 | 0.104 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 1.57 | 20.0 |
| BC02852 | Selenium, Total | mg/L | 0.0000021 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.108 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC02852 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 6.44 | 6.42 | 1.04 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.311 | 20.0 |
| BC02852 | Silicon, Total | mg/L | 0.000099 | 0.0440 | 1.00 | 6.48 | 6.51 | 1.02 | 0.850 to 1.15 | 91.0 | 70.0 to 130 | 0.462 | 20.0 |
| BC02852 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 837 | 882 | 5.06 | 4.25 to 5.75 | -240 | 70.0 to 130 | 5.24 | 20.0 |
| BC02852 | Sodium, Total | mg/L | 0.00888 | 0.0660 | 5.00 | 921 | 918 | 4.85 | 4.25 to 5.75 | 700 | 70.0 to 130 | 0.326 | 20.0 |
| BC02852 | Thallium, Dissolved | mg/L | 0.0000024 | 0.000147 | 0.100 | 0.100 | 0.100 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Thallium, Total | mg/L | 0.0000061 | 0.000147 | 0.100 | 0.113 | 0.112 | 0.113 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.889 | 20.0 |
| BC02852 | Total Organic Carbon | mg/L | 0.330 | 1.00 | 10.0 | 19.6 | 20.3 | 24.4 | | 104 | 80.0 to 120 | 3.51 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 11:46

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-35HO

Laboratory ID Number: BC02849

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|----------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02852 | Alkalinity, Total as CaCO3 | mg/L | | | | | 194 | 50.7 | 45.0 to 55.0 | | | 0.514 | 10.0 |
| BC02852 | Chloride | mg/L | -0.0516 | 1.00 | 1000 | 1370 | 385 | 10.2 | 9.00 to 11.0 | 97.8 | 80.0 to 120 | 1.80 | 20.0 |
| BC02852 | Fluoride | mg/L | -0.00752 | 0.125 | 2.50 | 2.86 | 0.242 | 2.66 | 2.25 to 2.75 | 103 | 80.0 to 120 | 18.4 | 20.0 |
| BC02852 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.07 | 0.200 | 2.00 | 2.06 | 0.072 | 1.94 | 1.80 to 2.20 | 103 | 90.0 to 110 | 0.00 | 15.0 |
| BC02852 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 3120 | 46.0 | 40.0 to 60.0 | | | 0.320 | 10.0 |
| BC02852 | Sulfate | mg/L | -0.206 | 2.0 | 1600 | 3170 | 1560 | 19.8 | 18.0 to 22.0 | 100 | 80.0 to 120 | 0.639 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-35HO DUP

Location Code: WMWGORAP
Collected: 2/9/22 11:46
Customer ID:
Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02850

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 12:09 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 12:09 | | 1.015 | 2.19 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 12:09 | | 1.015 | 0.0297 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 12:09 | | 1.015 | 0.0632 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 12:09 | | 1.015 | 0.493 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 12:09 | | 1 | 19.1 | mg/L | | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 12:09 | | 1.015 | 8.94 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:48 | | 10.15 | 116 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:46 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 10:46 | | 1.015 | 2.20 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:46 | | 1.015 | 0.0151 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:46 | | 1.015 | 0.0661 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:46 | | 1.015 | 0.491 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:46 | | 1 | 18.9 | mg/L | | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:46 | | 1.015 | 8.83 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 13:01 | | 10.15 | 117 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | 0.0206 | mg/L | 0.004060 | 0.01015 | | |
| * Arsenic, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | 0.000184 | mg/L | 0.000068 | 0.000203 | J | |
| * Barium, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | 0.0520 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | 0.000270 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | 0.00617 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | 0.00182 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | 2.07 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-35HO DUP

Location Code: WMWGORAP
Collected: 2/9/22 11:46
Customer ID:
Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02850

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:25 | 2/18/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | 0.00712 | mg/L | 0.004060 | 0.01015 | J |
| * Arsenic, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | 0.000140 | mg/L | 0.000068 | 0.000203 | J |
| * Barium, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | 0.0498 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | 0.000330 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | 0.00586 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | 0.00150 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | 1.96 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 12:00 | 2/16/22 13:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/15/22 17:19 | 2/15/22 21:41 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/17/22 11:48 | 2/17/22 11:48 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 232 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/11/22 12:35 | 2/14/22 13:44 | | 1 | 323 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 225 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 6.54 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/15/22 12:13 | 2/15/22 12:13 | | 1 | 1.02 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-35HO DUP

Location Code: WMWGORAP

Collected: 2/9/22 11:46

Customer ID:

Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02850

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:01 | 2/16/22 09:01 | | 1 | 18.0 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:46 | 2/10/22 16:46 | | 1 | 0.122 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:44 | 2/14/22 15:44 | | 1 | 22.3 | mg/L | 0.50 | 1 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/9/22 11:43 | 2/9/22 11:43 | | | 545.36 | uS/cm | | | FA |
| pH | 2/9/22 11:43 | 2/9/22 11:43 | | | 8.55 | SU | | | FA |
| Temperature | 2/9/22 11:43 | 2/9/22 11:43 | | | 17.16 | C | | | FA |
| Turbidity | 2/9/22 11:43 | 2/9/22 11:43 | | | 1.98 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 11:46

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-35HO DUP

Laboratory ID Number: BC02850

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC02852 | Aluminum, Dissolved | mg/L | -0.000374 | 0.010 | 0.100 | 0.100 | 0.101 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC02852 | Aluminum, Total | mg/L | 0.000733 | 0.010 | 0.100 | 0.104 | 0.108 | 0.102 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 3.77 | 20.0 |
| BC02852 | Antimony, Dissolved | mg/L | 0.000203 | 0.00100 | 0.100 | 0.101 | 0.0998 | 0.0924 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC02852 | Antimony, Total | mg/L | 0.000272 | 0.00100 | 0.100 | 0.104 | 0.106 | 0.0940 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC02852 | Arsenic, Dissolved | mg/L | 0.000042 | 0.000176 | 0.100 | 0.0997 | 0.0989 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.806 | 20.0 |
| BC02852 | Arsenic, Total | mg/L | 0.0000123 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.162 | 0.156 | 0.0970 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 3.77 | 20.0 |
| BC02852 | Barium, Total | mg/L | -0.0000515 | 0.000200 | 0.100 | 0.166 | 0.171 | 0.0977 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.97 | 20.0 |
| BC02852 | Beryllium, Dissolved | mg/L | 0.000201 | 0.000880 | 0.100 | 0.102 | 0.100 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC02852 | Beryllium, Total | mg/L | 0.000156 | 0.000880 | 0.100 | 0.103 | 0.104 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC02852 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.16 | 1.16 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Boron, Total | mg/L | -0.000505 | 0.0650 | 1.00 | 1.17 | 1.17 | 1.02 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Cadmium, Dissolved | mg/L | 0.0000108 | 0.000147 | 0.100 | 0.101 | 0.0971 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.94 | 20.0 |
| BC02852 | Cadmium, Total | mg/L | 0.000005 | 0.000147 | 0.100 | 0.0987 | 0.103 | 0.105 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 4.26 | 20.0 |
| BC02852 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 105 | 116 | 4.85 | 4.25 to 5.75 | 146 | 70.0 to 130 | 9.95 | 20.0 |
| BC02852 | Calcium, Total | mg/L | 0.00159 | 0.152 | 5.00 | 113 | 113 | 4.85 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Chromium, Dissolved | mg/L | -0.0000228 | 0.000440 | 0.100 | 0.0981 | 0.0981 | 0.102 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Chromium, Total | mg/L | 0.0000205 | 0.000440 | 0.100 | 0.0999 | 0.103 | 0.104 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 3.06 | 20.0 |
| BC02852 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.100 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC02852 | Cobalt, Total | mg/L | 0.00001 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC02852 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.843 | 0.839 | 0.202 | 0.170 to 0.230 | 94.0 | 70.0 to 130 | 0.476 | 20.0 |
| BC02852 | Iron, Total | mg/L | -0.000195 | 0.0176 | 0.2 | 0.956 | 0.961 | 0.199 | 0.170 to 0.230 | 91.0 | 70.0 to 130 | 0.522 | 20.0 |
| BC02852 | Lead, Dissolved | mg/L | 0.0000127 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.108 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02852 | Lead, Total | mg/L | 0.000007 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 2/9/22 11:46
Customer ID:
Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-35HO DUP

Laboratory ID Number: BC02850

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02852 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.382 | 0.390 | 0.202 | 0.170 to 0.230 | 104 | 70.0 to 130 | 2.07 | 20.0 |
| BC02852 | Lithium, Total | mg/L | -0.000069 | 0.0154 | 0.200 | 0.410 | 0.408 | 0.197 | 0.170 to 0.230 | 112 | 70.0 to 130 | 0.489 | 20.0 |
| BC02852 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 35.6 | 36.0 | 5.13 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC02852 | Magnesium, Total | mg/L | 0.00626 | 0.0462 | 5.00 | 37.2 | 37.3 | 5.02 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.268 | 20.0 |
| BC02852 | Manganese, Dissolved | mg/L | -0.0000656 | 0.0002 | 0.100 | 0.356 | 0.362 | 0.103 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.67 | 20.0 |
| BC02852 | Manganese, Total | mg/L | 0.0000193 | 0.0002 | 0.100 | 0.376 | 0.387 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.88 | 20.0 |
| BC02852 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00393 | 0.00395 | 0.00391 | 0.00340 to 0.00460 | 98.2 | 70.0 to 130 | 0.508 | 20.0 |
| BC02852 | Molybdenum, Dissolved | mg/L | 0.0000141 | 0.0002 | 0.100 | 0.0990 | 0.0987 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.303 | 20.0 |
| BC02852 | Molybdenum, Total | mg/L | 0.0000249 | 0.0002 | 0.100 | 0.113 | 0.111 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.79 | 20.0 |
| BC02852 | Potassium, Dissolved | mg/L | 0.00869 | 0.367 | 10.0 | 75.9 | 77.5 | 10.1 | 8.50 to 11.5 | 84.0 | 70.0 to 130 | 2.09 | 20.0 |
| BC02852 | Potassium, Total | mg/L | 0.00769 | 0.367 | 10.0 | 78.5 | 81.3 | 10.5 | 8.50 to 11.5 | 84.0 | 70.0 to 130 | 3.50 | 20.0 |
| BC02852 | Selenium, Dissolved | mg/L | 0.0000444 | 0.00100 | 0.100 | 0.0963 | 0.0948 | 0.104 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 1.57 | 20.0 |
| BC02852 | Selenium, Total | mg/L | 0.0000021 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.108 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC02852 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 6.44 | 6.42 | 1.04 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.311 | 20.0 |
| BC02852 | Silicon, Total | mg/L | 0.000099 | 0.0440 | 1.00 | 6.48 | 6.51 | 1.02 | 0.850 to 1.15 | 91.0 | 70.0 to 130 | 0.462 | 20.0 |
| BC02852 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 837 | 882 | 5.06 | 4.25 to 5.75 | -240 | 70.0 to 130 | 5.24 | 20.0 |
| BC02852 | Sodium, Total | mg/L | 0.00888 | 0.0660 | 5.00 | 921 | 918 | 4.85 | 4.25 to 5.75 | 700 | 70.0 to 130 | 0.326 | 20.0 |
| BC02852 | Thallium, Dissolved | mg/L | 0.0000024 | 0.000147 | 0.100 | 0.100 | 0.100 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Thallium, Total | mg/L | 0.0000061 | 0.000147 | 0.100 | 0.113 | 0.112 | 0.113 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.889 | 20.0 |
| BC02852 | Total Organic Carbon | mg/L | 0.330 | 1.00 | 10.0 | 19.6 | 20.3 | 24.4 | | 104 | 80.0 to 120 | 3.51 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 11:46

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-35HO DUP

Laboratory ID Number: BC02850

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|----------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02852 | Alkalinity, Total as CaCO3 | mg/L | | | | | 194 | 50.7 | 45.0 to 55.0 | | | 0.514 | 10.0 |
| BC02852 | Chloride | mg/L | -0.0516 | 1.00 | 1000 | 1370 | 385 | 10.2 | 9.00 to 11.0 | 97.8 | 80.0 to 120 | 1.80 | 20.0 |
| BC02852 | Fluoride | mg/L | -0.00752 | 0.125 | 2.50 | 2.86 | 0.242 | 2.66 | 2.25 to 2.75 | 103 | 80.0 to 120 | 18.4 | 20.0 |
| BC02852 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.07 | 0.200 | 2.00 | 2.06 | 0.072 | 1.94 | 1.80 to 2.20 | 103 | 90.0 to 110 | 0.00 | 15.0 |
| BC02852 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 3120 | 46.0 | 40.0 to 60.0 | | | 0.320 | 10.0 |
| BC02852 | Sulfate | mg/L | -0.206 | 2.0 | 1600 | 3170 | 1560 | 19.8 | 18.0 to 22.0 | 100 | 80.0 to 120 | 0.639 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB
Collected: 2/9/22 12:52
Customer ID:
Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02851

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 12:10 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 12:10 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 12:10 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 12:10 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 12:10 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 12:10 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 12:10 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 12:10 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Barium, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Beryllium, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | 0.000218 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Molybdenum, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Potassium, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:25 | 2/18/22 12:17 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/15/22 17:19 | 2/15/22 21:45 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/17/22 11:49 | 2/17/22 11:49 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/11/22 12:35 | 2/14/22 13:44 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB

Collected: 2/9/22 12:52

Customer ID:

Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02851

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-----|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/15/22 12:30 | 2/15/22 12:30 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:02 | 2/16/22 09:02 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:47 | 2/10/22 16:47 | | 1 | Not Detected | mg/L | 0.06 | 0.1 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:46 | 2/14/22 15:46 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 2/9/22 12:52

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC02851

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02852 | Aluminum, Total | mg/L | 0.000733 | 0.010 | 0.100 | 0.104 | 0.108 | 0.102 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 3.77 | 20.0 |
| BC02852 | Antimony, Total | mg/L | 0.000272 | 0.00100 | 0.100 | 0.104 | 0.106 | 0.0940 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC02852 | Arsenic, Total | mg/L | 0.0000123 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Barium, Total | mg/L | -0.0000515 | 0.000200 | 0.100 | 0.166 | 0.171 | 0.0977 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.97 | 20.0 |
| BC02852 | Beryllium, Total | mg/L | 0.000156 | 0.000880 | 0.100 | 0.103 | 0.104 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC02852 | Boron, Total | mg/L | -0.000505 | 0.0650 | 1.00 | 1.17 | 1.17 | 1.02 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Cadmium, Total | mg/L | 0.000005 | 0.000147 | 0.100 | 0.0987 | 0.103 | 0.105 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 4.26 | 20.0 |
| BC02852 | Calcium, Total | mg/L | 0.00159 | 0.152 | 5.00 | 113 | 113 | 4.85 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Chromium, Total | mg/L | 0.0000205 | 0.000440 | 0.100 | 0.0999 | 0.103 | 0.104 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 3.06 | 20.0 |
| BC02852 | Cobalt, Total | mg/L | 0.00001 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC02852 | Iron, Total | mg/L | -0.000195 | 0.0176 | 0.2 | 0.956 | 0.961 | 0.199 | 0.170 to 0.230 | 91.0 | 70.0 to 130 | 0.522 | 20.0 |
| BC02852 | Lead, Total | mg/L | 0.000007 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |
| BC02852 | Lithium, Total | mg/L | -0.000069 | 0.0154 | 0.200 | 0.410 | 0.408 | 0.197 | 0.170 to 0.230 | 112 | 70.0 to 130 | 0.489 | 20.0 |
| BC02852 | Magnesium, Total | mg/L | 0.00626 | 0.0462 | 5.00 | 37.2 | 37.3 | 5.02 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.268 | 20.0 |
| BC02852 | Manganese, Total | mg/L | 0.0000193 | 0.0002 | 0.100 | 0.376 | 0.387 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.88 | 20.0 |
| BC02852 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00393 | 0.00395 | 0.00391 | 0.00340 to 0.00460 | 98.2 | 70.0 to 130 | 0.508 | 20.0 |
| BC02852 | Molybdenum, Total | mg/L | 0.0000249 | 0.0002 | 0.100 | 0.113 | 0.111 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.79 | 20.0 |
| BC02852 | Potassium, Total | mg/L | 0.00769 | 0.367 | 10.0 | 78.5 | 81.3 | 10.5 | 8.50 to 11.5 | 84.0 | 70.0 to 130 | 3.50 | 20.0 |
| BC02852 | Selenium, Total | mg/L | 0.0000021 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.108 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC02852 | Silicon, Total | mg/L | 0.000099 | 0.0440 | 1.00 | 6.48 | 6.51 | 1.02 | 0.850 to 1.15 | 91.0 | 70.0 to 130 | 0.462 | 20.0 |
| BC02852 | Sodium, Total | mg/L | 0.00888 | 0.0660 | 5.00 | 921 | 918 | 4.85 | 4.25 to 5.75 | 700 | 70.0 to 130 | 0.326 | 20.0 |
| BC02852 | Thallium, Total | mg/L | 0.0000061 | 0.000147 | 0.100 | 0.113 | 0.112 | 0.113 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.889 | 20.0 |
| BC02852 | Total Organic Carbon | mg/L | 0.330 | 1.00 | 10.0 | 19.6 | 20.3 | 24.4 | | 104 | 80.0 to 120 | 3.51 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 2/9/22 12:52

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC02851

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|----------|-------------|-------|------|---------------------|----------|-------------------|------|--------------|-------|---------------|
| BC02852 | Chloride | mg/L | -0.0516 | 1.00 | 1000 | 1370 | 385 | 10.2 | 9.00 to 11.0 | 97.8 | 80.0 to 120 | 1.80 | 20.0 |
| BC02852 | Fluoride | mg/L | -0.00752 | 0.125 | 2.50 | 2.86 | 0.242 | 2.66 | 2.25 to 2.75 | 103 | 80.0 to 120 | 18.4 | 20.0 |
| BC02852 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.07 | 0.200 | 2.00 | 2.06 | 0.072 | 1.94 | 1.80 to 2.20 | 103 | 90.0 to 110 | 0.00 | 15.0 |
| BC02852 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 3120 | 46.0 | 40.0 to 60.0 | | | 0.320 | 10.0 |
| BC02852 | Sulfate | mg/L | -0.206 | 2.0 | 1600 | 3170 | 1560 | 19.8 | 18.0 to 22.0 | 100 | 80.0 to 120 | 0.639 | 20.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-34HO

Location Code: WMWGORAP
Collected: 2/9/22 13:54
Customer ID:
Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02852

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|--|
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 2/14/22 12:00 | 2/17/22 12:12 | | 1.015 | 0.106 | mg/L | 0.030000 | 0.1015 | | |
| * Calcium, Total | 2/14/22 12:00 | 2/17/22 13:50 | | 101.5 | 105 | mg/L | 7.0035 | 40.6 | RA | |
| * Iron, Total | 2/14/22 12:00 | 2/17/22 12:12 | | 1.015 | 0.774 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 2/14/22 12:00 | 2/17/22 12:12 | | 1.015 | 0.185 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 2/14/22 12:00 | 2/17/22 12:12 | | 1.015 | 32.3 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 2/14/22 12:00 | 2/17/22 12:12 | | 1 | 11.9 | mg/L | | | | |
| Silicon, Total | 2/14/22 12:00 | 2/17/22 12:12 | | 1.015 | 5.57 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 2/14/22 12:00 | 2/17/22 13:50 | | 101.5 | 886 | mg/L | 3.045 | 40.6 | RA | |
| Analytical Method: EPA 200.7 | | Analyst: RDA | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 2/14/22 12:00 | 2/17/22 10:48 | | 1.015 | 0.104 | mg/L | 0.030000 | 0.1015 | | |
| * Calcium, Dissolved | 2/14/22 12:00 | 2/17/22 13:03 | | 101.5 | 97.7 | mg/L | 7.0035 | 40.6 | RA | |
| * Iron, Dissolved | 2/14/22 12:00 | 2/17/22 10:48 | | 1.015 | 0.655 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 2/14/22 12:00 | 2/17/22 10:48 | | 1.015 | 0.173 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 2/14/22 12:00 | 2/17/22 10:48 | | 1.015 | 30.8 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 2/14/22 12:00 | 2/17/22 10:48 | | 1 | 11.7 | mg/L | | | | |
| Silicon, Dissolved | 2/14/22 12:00 | 2/17/22 10:48 | | 1.015 | 5.47 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 2/14/22 12:00 | 2/17/22 13:03 | | 101.5 | 849 | mg/L | 3.045 | 40.6 | RA | |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | 0.00715 | mg/L | 0.004060 | 0.01015 | J | |
| * Arsenic, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | 0.00112 | mg/L | 0.000068 | 0.000203 | | |
| * Barium, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | 0.0615 | mg/L | 0.000102 | 0.000203 | | |
| * Beryllium, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | 0.000412 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | 0.0000834 | mg/L | 0.000068 | 0.000203 | J | |
| * Lead, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | 0.274 | mg/L | 0.000068 | 0.000203 | | |
| * Molybdenum, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | 0.00959 | mg/L | 0.000068 | 0.000203 | | |
| * Potassium, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | 70.1 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-34HO

Location Code: WMWGORAP
Collected: 2/9/22 13:54
Customer ID:
Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02852

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 2/16/22 10:25 | 2/18/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: ABB | | | | | | | |
| * Antimony, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | Not Detected | mg/L | 0.004060 | 0.01015 | U |
| * Arsenic, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | 0.000823 | mg/L | 0.000068 | 0.000203 | |
| * Barium, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | 0.0568 | mg/L | 0.000102 | 0.000203 | |
| * Beryllium, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | 0.000275 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | 0.259 | mg/L | 0.000068 | 0.000203 | |
| * Molybdenum, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | 0.00223 | mg/L | 0.000068 | 0.000203 | |
| * Potassium, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | 67.5 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 2/16/22 12:00 | 2/16/22 13:15 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 2/23/22 15:05 | 2/23/22 19:37 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: ELH | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 2/17/22 11:50 | 2/17/22 11:50 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 195 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 2/11/22 12:35 | 2/14/22 13:44 | | 1 | 3130 | mg/L | | 227.3 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 195 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 2/21/22 10:00 | 2/21/22 10:40 | | 1 | 0.34 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 2/15/22 12:45 | 2/15/22 12:45 | | 1 | 9.19 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-34HO

Location Code: WMWGORAP

Collected: 2/9/22 13:54

Customer ID:

Submittal Date: 2/9/22 16:51

Laboratory ID Number: BC02852

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-----|---------|-------|-------|-----|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 2/16/22 09:04 | 2/16/22 09:04 | | 100 | 392 | mg/L | 50.00 | 100 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 2/10/22 16:48 | 2/10/22 16:48 | | 1 | 0.291 | mg/L | 0.06 | 0.1 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 2/14/22 15:47 | 2/14/22 15:47 | | 80 | 1570 | mg/L | 40.00 | 80 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 2/9/22 13:51 | 2/9/22 13:51 | | | 4534.67 | uS/cm | | | FA |
| pH | 2/9/22 13:51 | 2/9/22 13:51 | | | 7.40 | SU | | | FA |
| Temperature | 2/9/22 13:51 | 2/9/22 13:51 | | | 18.05 | C | | | FA |
| Turbidity | 2/9/22 13:51 | 2/9/22 13:51 | | | 3.96 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 13:54

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-34HO

Laboratory ID Number: BC02852

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC02852 | Aluminum, Dissolved | mg/L | -0.000374 | 0.010 | 0.100 | 0.100 | 0.101 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC02852 | Aluminum, Total | mg/L | 0.000733 | 0.010 | 0.100 | 0.104 | 0.108 | 0.102 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 3.77 | 20.0 |
| BC02852 | Antimony, Dissolved | mg/L | 0.000203 | 0.00100 | 0.100 | 0.101 | 0.0998 | 0.0924 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC02852 | Antimony, Total | mg/L | 0.000272 | 0.00100 | 0.100 | 0.104 | 0.106 | 0.0940 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC02852 | Arsenic, Dissolved | mg/L | 0.0000042 | 0.000176 | 0.100 | 0.0997 | 0.0989 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.806 | 20.0 |
| BC02852 | Arsenic, Total | mg/L | 0.0000123 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Barium, Dissolved | mg/L | 0.00000 | 0.000200 | 0.100 | 0.162 | 0.156 | 0.0970 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 3.77 | 20.0 |
| BC02852 | Barium, Total | mg/L | -0.0000515 | 0.000200 | 0.100 | 0.166 | 0.171 | 0.0977 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.97 | 20.0 |
| BC02852 | Beryllium, Dissolved | mg/L | 0.000201 | 0.000880 | 0.100 | 0.102 | 0.100 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC02852 | Beryllium, Total | mg/L | 0.000156 | 0.000880 | 0.100 | 0.103 | 0.104 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC02852 | Boron, Dissolved | mg/L | -0.000566 | 0.0650 | 1.00 | 1.16 | 1.16 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Boron, Total | mg/L | -0.000505 | 0.0650 | 1.00 | 1.17 | 1.17 | 1.02 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Cadmium, Dissolved | mg/L | 0.0000108 | 0.000147 | 0.100 | 0.101 | 0.0971 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.94 | 20.0 |
| BC02852 | Cadmium, Total | mg/L | 0.000005 | 0.000147 | 0.100 | 0.0987 | 0.103 | 0.105 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 4.26 | 20.0 |
| BC02852 | Calcium, Dissolved | mg/L | -0.0177 | 0.152 | 5.00 | 105 | 116 | 4.85 | 4.25 to 5.75 | 146 | 70.0 to 130 | 9.95 | 20.0 |
| BC02852 | Calcium, Total | mg/L | 0.00159 | 0.152 | 5.00 | 113 | 113 | 4.85 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Chromium, Dissolved | mg/L | -0.0000228 | 0.000440 | 0.100 | 0.0981 | 0.0981 | 0.102 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Chromium, Total | mg/L | 0.0000205 | 0.000440 | 0.100 | 0.0999 | 0.103 | 0.104 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 3.06 | 20.0 |
| BC02852 | Cobalt, Dissolved | mg/L | 0.0000091 | 0.000147 | 0.100 | 0.100 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC02852 | Cobalt, Total | mg/L | 0.00001 | 0.000147 | 0.100 | 0.103 | 0.105 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC02852 | Iron, Dissolved | mg/L | -0.000454 | 0.0176 | 0.2 | 0.843 | 0.839 | 0.202 | 0.170 to 0.230 | 94.0 | 70.0 to 130 | 0.476 | 20.0 |
| BC02852 | Iron, Total | mg/L | -0.000195 | 0.0176 | 0.2 | 0.956 | 0.961 | 0.199 | 0.170 to 0.230 | 91.0 | 70.0 to 130 | 0.522 | 20.0 |
| BC02852 | Lead, Dissolved | mg/L | 0.0000127 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.108 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC02852 | Lead, Total | mg/L | 0.000007 | 0.000147 | 0.100 | 0.108 | 0.109 | 0.107 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.922 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 13:54

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-34HO

Laboratory ID Number: BC02852

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC02852 | Lithium, Dissolved | mg/L | -0.000064 | 0.0154 | 0.200 | 0.382 | 0.390 | 0.202 | 0.170 to 0.230 | 104 | 70.0 to 130 | 2.07 | 20.0 |
| BC02852 | Lithium, Total | mg/L | -0.000069 | 0.0154 | 0.200 | 0.410 | 0.408 | 0.197 | 0.170 to 0.230 | 112 | 70.0 to 130 | 0.489 | 20.0 |
| BC02852 | Magnesium, Dissolved | mg/L | 0.000534 | 0.0462 | 5.00 | 35.6 | 36.0 | 5.13 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.12 | 20.0 |
| BC02852 | Magnesium, Total | mg/L | 0.00626 | 0.0462 | 5.00 | 37.2 | 37.3 | 5.02 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.268 | 20.0 |
| BC02852 | Manganese, Dissolved | mg/L | -0.0000656 | 0.0002 | 0.100 | 0.356 | 0.362 | 0.103 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 1.67 | 20.0 |
| BC02852 | Manganese, Total | mg/L | 0.0000193 | 0.0002 | 0.100 | 0.376 | 0.387 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.88 | 20.0 |
| BC02852 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00393 | 0.00395 | 0.00391 | 0.00340 to 0.00460 | 98.2 | 70.0 to 130 | 0.508 | 20.0 |
| BC02852 | Molybdenum, Dissolved | mg/L | 0.0000141 | 0.0002 | 0.100 | 0.0990 | 0.0987 | 0.100 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.303 | 20.0 |
| BC02852 | Molybdenum, Total | mg/L | 0.0000249 | 0.0002 | 0.100 | 0.113 | 0.111 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.79 | 20.0 |
| BC02852 | Potassium, Dissolved | mg/L | 0.00869 | 0.367 | 10.0 | 75.9 | 77.5 | 10.1 | 8.50 to 11.5 | 84.0 | 70.0 to 130 | 2.09 | 20.0 |
| BC02852 | Potassium, Total | mg/L | 0.00769 | 0.367 | 10.0 | 78.5 | 81.3 | 10.5 | 8.50 to 11.5 | 84.0 | 70.0 to 130 | 3.50 | 20.0 |
| BC02852 | Selenium, Dissolved | mg/L | 0.0000444 | 0.00100 | 0.100 | 0.0963 | 0.0948 | 0.104 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 1.57 | 20.0 |
| BC02852 | Selenium, Total | mg/L | 0.0000021 | 0.00100 | 0.100 | 0.101 | 0.100 | 0.108 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC02852 | Silicon, Dissolved | mg/L | -0.00084 | 0.0440 | 1.00 | 6.44 | 6.42 | 1.04 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.311 | 20.0 |
| BC02852 | Silicon, Total | mg/L | 0.000099 | 0.0440 | 1.00 | 6.48 | 6.51 | 1.02 | 0.850 to 1.15 | 91.0 | 70.0 to 130 | 0.462 | 20.0 |
| BC02852 | Sodium, Dissolved | mg/L | 0.000535 | 0.0660 | 5.00 | 837 | 882 | 5.06 | 4.25 to 5.75 | -240 | 70.0 to 130 | 5.24 | 20.0 |
| BC02852 | Sodium, Total | mg/L | 0.00888 | 0.0660 | 5.00 | 921 | 918 | 4.85 | 4.25 to 5.75 | 700 | 70.0 to 130 | 0.326 | 20.0 |
| BC02852 | Thallium, Dissolved | mg/L | 0.0000024 | 0.000147 | 0.100 | 0.100 | 0.100 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC02852 | Thallium, Total | mg/L | 0.0000061 | 0.000147 | 0.100 | 0.113 | 0.112 | 0.113 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.889 | 20.0 |
| BC02852 | Total Organic Carbon | mg/L | 0.330 | 1.00 | 10.0 | 19.6 | 20.3 | 24.4 | | 104 | 80.0 to 120 | 3.51 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 2/9/22 13:54

Customer ID:

Delivery Date: 2/9/22 16:51

Description: Gorgas Ash Pond - MW-34HO

Laboratory ID Number: BC02852

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|----------|----------|-------|------|------------------|----------|----------------|------|-------------|-------|------------|
| BC02852 | Alkalinity, Total as CaCO3 | mg/L | | | | | 194 | 50.7 | 45.0 to 55.0 | | | 0.514 | 10.0 |
| BC02852 | Chloride | mg/L | -0.0516 | 1.00 | 1000 | 1370 | 385 | 10.2 | 9.00 to 11.0 | 97.8 | 80.0 to 120 | 1.80 | 20.0 |
| BC02852 | Fluoride | mg/L | -0.00752 | 0.125 | 2.50 | 2.86 | 0.242 | 2.66 | 2.25 to 2.75 | 103 | 80.0 to 120 | 18.4 | 20.0 |
| BC02852 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.07 | 0.200 | 2.00 | 2.06 | 0.072 | 1.94 | 1.80 to 2.20 | 103 | 90.0 to 110 | 0.00 | 15.0 |
| BC02852 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 3120 | 46.0 | 40.0 to 60.0 | | | 0.320 | 10.0 |
| BC02852 | Sulfate | mg/L | -0.206 | 2.0 | 1600 | 3170 | 1560 | 19.8 | 18.0 to 22.0 | 100 | 80.0 to 120 | 0.639 | 20.0 |

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.

Definitions

Project Number: WMWGORAP_1351

| Abbreviation | Description |
|--------------|---|
| DF | Dilution Factor |
| LCS | Lab Control Sample |
| LFM | Lab Fortified Matrix |
| MB | Method Blank |
| MDL | Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero. |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| Prec | Precision (% RPD) |
| Q | Qualifier; comment used to note deviations or additional information associated with analytical results. |
| QC | Quality Control |
| Rec | Recovery of Matrix Spike |
| RL | Reporting Limit; lowest concentration at which an analyte can be quantitatively measured. |
| Vio Spec | Violation Specification; regulatory limit which has been exceeded by the sample analyzed. |

| Qualifier | Description |
|-----------|--|
| FA | Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative. |
| J | Reported value is an estimate because concentration is less than reporting limit. |
| RA | Matrix spike is invalid due to sample concentration. |
| U | Compound was analyzed, but not detected. |

February 16, 2022

Laura Midkiff
Alabama Power
744 Highway 87
GSC 8
Calera, AL 35040

RE: Project: WMWGORAP_1351
Pace Project No.: 20234694

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - New Orleans

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Karen Brown
karen.brown@pacelabs.com
(504)469-0333
Project Manager

Enclosures

cc: Renee Jernigan, Alabama Power
Trinity B. Williams, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGORAP_1351
Pace Project No.: 20234694

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Texas Commission on Env. Quality (NELAC):
T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1351

Pace Project No.: 20234694

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------------|--------|----------------|----------------|
| 20234694001 | BC02853 MW-33HO | Water | 02/09/22 09:45 | 02/10/22 14:55 |
| 20234694002 | BC02854 FB-1 | Water | 02/09/22 10:50 | 02/10/22 14:55 |
| 20234694003 | BC02855 MW-35HO | Water | 02/09/22 11:46 | 02/10/22 14:55 |
| 20234694004 | BC02856 MW-35HO DUP | Water | 02/09/22 11:46 | 02/10/22 14:55 |
| 20234694005 | BC02857 EB-1 | Water | 02/09/22 12:52 | 02/10/22 14:55 |
| 20234694006 | BC02858 MW-34HO | Water | 02/09/22 13:54 | 02/10/22 14:55 |

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1351

Pace Project No.: 20234694

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------------|---------------|----------|-------------------|
| 20234694001 | BC02853 MW-33HO | SM 4500-S-2 D | RVJ | 1 |
| 20234694002 | BC02854 FB-1 | SM 4500-S-2 D | RVJ | 1 |
| 20234694003 | BC02855 MW-35HO | SM 4500-S-2 D | RVJ | 1 |
| 20234694004 | BC02856 MW-35HO DUP | SM 4500-S-2 D | RVJ | 1 |
| 20234694005 | BC02857 EB-1 | SM 4500-S-2 D | RVJ | 1 |
| 20234694006 | BC02858 MW-34HO | SM 4500-S-2 D | RVJ | 1 |

PASI-N = Pace Analytical Services - New Orleans

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1351

Pace Project No.: 20234694

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Alabama Power

Date: February 16, 2022

General Information:

6 samples were analyzed for SM 4500-S-2 D by Pace Analytical Services New Orleans. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 247736

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 20234712003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1176454)
- Sulfide, Total

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1351

Pace Project No.: 20234694

Sample: BC02853 MW-33HO **Lab ID: 20234694001** Collected: 02/09/22 09:45 Received: 02/10/22 14:55 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D | | | | | | | | | |
| Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 1.5 | mg/L | 0.10 | 0.059 | 5 | | 02/14/22 15:03 | 18496-25-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WMWGORAP_1351

Pace Project No.: 20234694

Sample: BC02854 FB-1 **Lab ID: 20234694002** Collected: 02/09/22 10:50 Received: 02/10/22 14:55 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D | | | | | | | | | |
| Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/14/22 15:05 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1351

Pace Project No.: 20234694

Sample: BC02855 MW-35HO **Lab ID: 20234694003** Collected: 02/09/22 11:46 Received: 02/10/22 14:55 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-------------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D | | | | | | | | | |
| Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.57 | mg/L | 0.10 | 0.059 | 5 | | 02/15/22 15:41 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1351
Pace Project No.: 20234694

| Sample: BC02856 MW-35HO DUP Lab ID: 20234694004 Collected: 02/09/22 11:46 Received: 02/10/22 14:55 Matrix: Water | | | | | | | | | |
|--|-------------|-------|--------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 0.58 | mg/L | 0.10 | 0.059 | 5 | | 02/15/22 15:42 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1351
Pace Project No.: 20234694

| Sample: BC02857 EB-1 | | Lab ID: 20234694005 | | Collected: 02/09/22 12:52 | Received: 02/10/22 14:55 | Matrix: Water | | | |
|-------------------------------|---------|--|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | |
| Sulfide, Total | ND | mg/L | 0.020 | 0.012 | 1 | | 02/14/22 15:29 | 18496-25-8 | |

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ANALYTICAL RESULTS

Project: WMWGORAP_1351
Pace Project No.: 20234694

| Sample: BC02858 MW-34HO Lab ID: 20234694006 Collected: 02/09/22 13:54 Received: 02/10/22 14:55 Matrix: Water | | | | | | | | | |
|--|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide, Total | | | | | | | | | |
| Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans | | | | | | | | | |
| Sulfide, Total | 1.5 | mg/L | 0.10 | 0.059 | 5 | | 02/15/22 14:57 | 18496-25-8 | |

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QUALITY CONTROL DATA

Project: WMWGORAP_1351
Pace Project No.: 20234694

QC Batch: 247615 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20234694001, 20234694002, 20234694005

METHOD BLANK: 1175910 Matrix: Water
Associated Lab Samples: 20234694001, 20234694002, 20234694005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/14/22 14:22 | |

LABORATORY CONTROL SAMPLE: 1175911

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.18 | 90 | 90-110 | |

MATRIX SPIKE SAMPLE: 1175913

| Parameter | Units | 20234694001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | 1.5 | 1 | 2.3 | 79 | 75-125 | |

SAMPLE DUPLICATE: 1175912

| Parameter | Units | 20234694001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | 1.5 | 1.5 | 0 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: WMWGORAP_1351
Pace Project No.: 20234694

| | |
|--------------------------------|--|
| QC Batch: 247736 | Analysis Method: SM 4500-S-2 D |
| QC Batch Method: SM 4500-S-2 D | Analysis Description: 4500S2D Sulfide, Total |
| | Laboratory: Pace Analytical Services - New Orleans |

Associated Lab Samples: 20234694003, 20234694004, 20234694006

METHOD BLANK: 1176451 Matrix: Water
Associated Lab Samples: 20234694003, 20234694004, 20234694006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide, Total | mg/L | ND | 0.020 | 0.012 | 02/15/22 14:28 | |

LABORATORY CONTROL SAMPLE: 1176452

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide, Total | mg/L | 0.2 | 0.19 | 93 | 90-110 | |

MATRIX SPIKE SAMPLE: 1176454

| Parameter | Units | 20234712003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|----------------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Sulfide, Total | mg/L | ND | 0.2 | 0.14 | 70 | 75-125 | M1 |

SAMPLE DUPLICATE: 1176453

| Parameter | Units | 20234712003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|----------------|-------|--------------------|------------|-----|---------|------------|
| Sulfide, Total | mg/L | ND | ND | | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGORAP_1351

Pace Project No.: 20234694

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1351

Pace Project No.: 20234694

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------|-----------------|----------|-------------------|------------------|
| 20234694001 | BC02853 MW-33HO | SM 4500-S-2 D | 247615 | | |
| 20234694002 | BC02854 FB-1 | SM 4500-S-2 D | 247615 | | |
| 20234694003 | BC02855 MW-35HO | SM 4500-S-2 D | 247736 | | |
| 20234694004 | BC02856 MW-35HO DUP | SM 4500-S-2 D | 247736 | | |
| 20234694005 | BC02857 EB-1 | SM 4500-S-2 D | 247615 | | |
| 20234694006 | BC02858 MW-34HO | SM 4500-S-2 D | 247736 | | |

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CHAIN-OF-CUSTODY / Analytical Request Docu
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

| | | | | | |
|---|--|--|-----------------------------------|--|----------------------|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | Report To: Laura Midkiff | Report To: Laura Midkiff | Attention: Laura Midkiff | Company Name: Alabama Power Co. | Regulatory Agency: |
| Address: 744 Highway 87 GSC Bldg #8 Catera, AL 35040 | Copy To: Brooke Caton & Renee Jernigan | Address: 744 Highway 87 GSC Bldg #8 CCR | Face Quote: Karen Brown | Address: 744 Highway 87 GSC Bldg #8 CCR | State / Location: AL |
| Email To: lmidkiff@southernco.com | Purchase Order #: APC10756638 | Project Name: Plant Gorgas Ash Pond | Face Project Manager: Karen Brown | Project Number: VMWGORAP_1351 | |
| Phone: 205-664-6197 | | | | | |
| Requested Due Date: Normal | | | | | |

| # | ITEM | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Unpreserved | NaOH/ZnAcetate | HNO3 | Preservatives | Y/N | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) |
|----|---------|-------------|-------------------------------|--------------------------|------------------|-------------------------------------|----------------|-----------------------------|-----------|-------|-----------------|-------------|----------------|------|---------------|-----|-----------------------------------|-------------------------|
| | | | | | | | | | DATE | TIME | | | | | | | | |
| 1 | BC02853 | MW-39HO | APCO-GS-AP-MW-33HO | APCO_Gorgas_AshPond | | | | GW G | 2/9/2022 | 9:45 | 1 | X | | | | | | |
| 2 | BC02854 | FB-1 | APCO-GS-AP-FB-01 | APCO_Gorgas_AshPond | | | | GW G | 2/9/2022 | 10:50 | 1 | X | | | | | | |
| 3 | BC02855 | MW-39HO | APCO-GS-AP-MW-35HO | APCO_Gorgas_AshPond | | | | GW G | 2/9/2022 | 11:46 | 1 | X | | | | | | |
| 4 | BC02856 | MW-35HO DUP | APCO-GS-AP-MW-35HO | APCO_Gorgas_AshPond | X | | | GW G | 2/9/2022 | 11:46 | 1 | X | | | | | | |
| 5 | BC02857 | EB-1 | APCO-GS-AP-EB-01 | APCO_Gorgas_AshPond | | | | GW G | 2/9/2022 | 12:52 | 1 | X | | | | | | |
| 6 | BC02858 | MW-34HO | APCO-GS-AP-MW-34HO | APCO_Gorgas_AshPond | | | | GW G | 2/9/2022 | 13:54 | 1 | X | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|-------|---------------------------|---------|-------|--|
| | Laura Midkiff/ APC GTL | 2/9/2022 | 17:25 | <i>FedEx</i> | 2/10/22 | 14:55 | Received on (Y/N) Custody (Y/N) Sealed (Y/N) Cooler (Y/N) Intact (Y/N) |
| | | | | <i>FedEx</i> | 2/10/22 | 14:55 | |

| | |
|-----------------------------------|--------------------|
| SAMPLER NAME AND SIGNATURE | |
| PRINT Name of SAMPLER: | DALLAS GENTRY |
| SIGNATURE of SAMPLER: | <i>[Signature]</i> |
| DATE Signed: | 2/10/22 |



1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon Receipt

WO# : 20234694

PM: KHB Due Date: 02/22/22

CLIENT: 20-Alabama

Project

Courier: Pace Courier Hired Courier Fed X UPS DHL USPS Customer Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: Yes No

Thermometer Used: Therm Fisher IR 7
 Therm Fisher IR 10

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2/10/22 AC

Temp must be measured from Temperature blank when present

Comments:

| | | |
|---|--|----|
| Temperature Blank Present?" | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 1 |
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2 |
| Chain of Custody Complete: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3 |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4 |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5 |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6 |
| Sufficient Volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7 |
| Correct Containers Used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8 |
| Filtered vol. Rec. for Diss. tests | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 9 |
| Sample Labels match COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10 |
| All containers received within manufacture's precautionary and/or expiration dates. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11 |
| All containers needing chemical preservation have been checked (except VOA, coliform, & O&G). | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12 |
| All containers preservation checked found to be in compliance with EPA recommendation. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13 |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14 |
| Trip Blank Present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 15 |

If No, was preservative added? Yes No
If added record lot no.: HNO3 _____ H2SO4 _____

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

April 18, 2022

Laura Midkiff
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGORAP_1351
Pace Project No.: 30467358

Dear Laura Midkiff:

Enclosed are the analytical results for sample(s) received by the laboratory between February 15, 2022 and February 16, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

(Greensburg, WV) - Revision 1 - This report replaces the 4/15/2022 report. This project was revised on 4/18/2022 to revise a collection time.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Brooke Caton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGORAP_1351

Pace Project No.: 30467358

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1351

Pace Project No.: 30467358

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------------|--------|----------------|----------------|
| 30467358001 | BC02853 MW-33HO | Water | 02/09/22 09:45 | 02/15/22 09:55 |
| 30467358002 | BC02854 FB-1 | Water | 02/09/22 10:50 | 02/15/22 09:55 |
| 30467358003 | BC02855 MW-35HO | Water | 02/09/22 11:46 | 02/15/22 09:55 |
| 30467358004 | BC02856 MW-35HO DUP | Water | 02/09/22 11:46 | 02/15/22 09:55 |
| 30467358005 | BC02857 EB-1 | Water | 02/09/22 12:52 | 02/15/22 09:55 |
| 30467358006 | BC02858 MW-34HO | Water | 02/09/22 13:54 | 02/15/22 09:55 |
| 30467358007 | BC02853 MS | Water | 02/09/22 09:45 | 02/16/22 09:35 |
| 30467358008 | BC02853 MSD | Water | 02/09/22 09:45 | 02/16/22 09:35 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1351
Pace Project No.: 30467358

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------------|--------------------------|----------|-------------------|------------|
| 30467358001 | BC02853 MW-33HO | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30467358002 | BC02854 FB-1 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30467358003 | BC02855 MW-35HO | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30467358004 | BC02856 MW-35HO DUP | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30467358005 | BC02857 EB-1 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30467358006 | BC02858 MW-34HO | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30467358007 | BC02853 MS | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30467358008 | BC02853 MSD | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1351

Pace Project No.: 30467358

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: April 18, 2022

General Information:

8 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1351

Pace Project No.: 30467358

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: April 18, 2022

General Information:

8 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1351
Pace Project No.: 30467358

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Alabama Power
Date: April 18, 2022

General Information:

6 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1351

Pace Project No.: 30467358

Sample: BC02853 MW-33HO **Lab ID: 30467358001** Collected: 02/09/22 09:45 Received: 02/15/22 09:55 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.117U ± 0.186 (0.415) C:97% T:NA | pCi/L | 03/11/22 12:27 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.650U ± 0.394 (0.720) C:78% T:74% | pCi/L | 03/04/22 10:49 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.767U ± 0.580 (1.14) | pCi/L | 03/14/22 21:56 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1351

Pace Project No.: 30467358

Sample: BC02854 FB-1 **Lab ID: 30467358002** Collected: 02/09/22 10:50 Received: 02/15/22 09:55 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0426U ± 0.129 (0.320) C:101% T:NA | pCi/L | 03/11/22 12:27 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0745U ± 0.292 (0.664) C:78% T:89% | pCi/L | 03/04/22 10:49 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.117U ± 0.421 (0.984) | pCi/L | 03/14/22 21:56 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1351

Pace Project No.: 30467358

Sample: BC02855 MW-35HO **Lab ID: 30467358003** Collected: 02/09/22 11:46 Received: 02/15/22 09:55 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0413U ± 0.123 (0.306) C:94% T:NA | pCi/L | 03/11/22 12:27 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.189U ± 0.283 (0.609) C:76% T:89% | pCi/L | 03/04/22 10:49 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.230U ± 0.406 (0.915) | pCi/L | 03/14/22 21:57 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1351

Pace Project No.: 30467358

Sample: BC02856 MW-35HO DUP **Lab ID: 30467358004** Collected: 02/09/22 11:46 Received: 02/15/22 09:55 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0880U ± 0.148 (0.330) C:89% T:NA | pCi/L | 03/11/22 12:27 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.719 ± 0.363 (0.620) C:75% T:91% | pCi/L | 03/04/22 10:49 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.807U ± 0.511 (0.950) | pCi/L | 03/14/22 21:57 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1351

Pace Project No.: 30467358

Sample: BC02857 EB-1 **Lab ID: 30467358005** Collected: 02/09/22 12:52 Received: 02/15/22 09:55 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.140U ± 0.146 (0.276) C:100% T:NA | pCi/L | 03/11/22 12:30 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.205U ± 0.299 (0.643) C:81% T:87% | pCi/L | 03/04/22 10:49 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.345U ± 0.445 (0.919) | pCi/L | 03/14/22 21:57 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1351

Pace Project No.: 30467358

Sample: BC02858 MW-34HO **Lab ID: 30467358006** Collected: 02/09/22 13:54 Received: 02/15/22 09:55 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.213U ± 0.169 (0.285) C:103% T:NA | pCi/L | 03/11/22 12:31 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | -0.222U ± 0.346 (0.864) C:78% T:68% | pCi/L | 03/04/22 10:50 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.213U ± 0.515 (1.15) | pCi/L | 03/14/22 21:57 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1351

Pace Project No.: 30467358

Sample: BC02853 MS **Lab ID: 30467358007** Collected: 02/09/22 09:45 Received: 02/16/22 09:35 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 105.64 %REC ± NA (NA) C:NA T:NA | pCi/L | 03/11/22 12:31 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 77.53 %REC ± NA (NA) C:NA T:NA | pCi/L | 03/04/22 10:50 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1351

Pace Project No.: 30467358

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 110.65 %REC 4.63RPD ± NA (NA) C:NA T:NA | pCi/L | 03/11/22 12:31 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 63.75 %REC 19.50 RPD ± NA (NA) C:NA T:NA | pCi/L | 03/04/22 10:50 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORAP_1351

Pace Project No.: 30467358

QC Batch: 485927

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30467358001, 30467358002, 30467358003, 30467358004, 30467358005, 30467358006, 30467358007, 30467358008

METHOD BLANK: 2349793

Matrix: Water

Associated Lab Samples: 30467358001, 30467358002, 30467358003, 30467358004, 30467358005, 30467358006, 30467358007, 30467358008

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-226 | 0.0728 ± 0.0744 (0.139) C:99% T:NA | pCi/L | 03/11/22 12:27 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGORAP_1351
Pace Project No.: 30467358

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1351
Pace Project No.: 30467358

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------|--------------------------|----------|-------------------|------------------|
| 30467358001 | BC02853 MW-33HO | EPA 9315 | 485927 | | |
| 30467358002 | BC02854 FB-1 | EPA 9315 | 485927 | | |
| 30467358003 | BC02855 MW-35HO | EPA 9315 | 485927 | | |
| 30467358004 | BC02856 MW-35HO DUP | EPA 9315 | 485927 | | |
| 30467358005 | BC02857 EB-1 | EPA 9315 | 485927 | | |
| 30467358006 | BC02858 MW-34HO | EPA 9315 | 485927 | | |
| 30467358007 | BC02853 MS | EPA 9315 | 485927 | | |
| 30467358008 | BC02853 MSD | EPA 9315 | 485927 | | |
| 30467358001 | BC02853 MW-33HO | EPA 9320 | 486655 | | |
| 30467358002 | BC02854 FB-1 | EPA 9320 | 486655 | | |
| 30467358003 | BC02855 MW-35HO | EPA 9320 | 486655 | | |
| 30467358004 | BC02856 MW-35HO DUP | EPA 9320 | 486655 | | |
| 30467358005 | BC02857 EB-1 | EPA 9320 | 486655 | | |
| 30467358006 | BC02858 MW-34HO | EPA 9320 | 486655 | | |
| 30467358007 | BC02853 MS | EPA 9320 | 486655 | | |
| 30467358008 | BC02853 MSD | EPA 9320 | 486655 | | |
| 30467358001 | BC02853 MW-33HO | Total Radium Calculation | 490238 | | |
| 30467358002 | BC02854 FB-1 | Total Radium Calculation | 490238 | | |
| 30467358003 | BC02855 MW-35HO | Total Radium Calculation | 490238 | | |
| 30467358004 | BC02856 MW-35HO DUP | Total Radium Calculation | 490238 | | |
| 30467358005 | BC02857 EB-1 | Total Radium Calculation | 490238 | | |
| 30467358006 | BC02858 MW-34HO | Total Radium Calculation | 490238 | | |

REPORT OF LABORATORY ANALYSIS

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WO#: 30467358



CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

| | | | | | |
|-------------------------------------|--|--------------------------------------|-------------------------------|-----------------------------|-----------------------------------|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: | Alabama Power Company | Report To: | Laura Midkiff | Attention: | Laura Midkiff |
| Address: | 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: | Brooke Caton & Renee Jernigan | Company Name: | Alabama Power Co. |
| Email To: | lbmidkiff@southernco.com | Purchase Order #: | APC10755638 | Address: | 744 Highway 87 GSC Bldg #8 CCR |
| Phone: | 205-664-6197 | Project Name: | Plant Gorgas Ash Pond | Face Contact: | Alexis Ozoroski@pacelabs.com |
| Requested Due Date: | 28 days | Project Number: | WMWGORAP_1351 | State / Location: | AL |

| ITEM # | Description | Station Name Location Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | Matrix Code (see valid codes to left) | Sample Type (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Preservatives | Y/N | Requested Analytes Filtered (Y/N) | EPA 9315 | EPA 9320 | Total Radium Sum | Residual Chlorine (Y/N) |
|--------|-------------|----------------------------|-----------------------|---------------------|-------------------------------------|----------------|---------------------------------------|-----------------------------|------------|------------|-----------------|---------------|-----|-----------------------------------|----------|----------|------------------|-------------------------|
| | | | | | | | | | START DATE | START TIME | | | | | | | | |
| 1 | BC02853 | MW-33HO | APCO-GS-AP-MW-33HO | APCO_Gorgas_AshPond | X | | GW G | G | 2/9/2022 | 9:45 | 3 | | | X | X | | | |
| 2 | BC02854 | FB-1 | APCO-GS-AP-FB-01 | APCO_Gorgas_AshPond | | | GW G | G | 2/9/2022 | 10:50 | 1 | H2SO4 | | X | X | | | |
| 3 | BC02855 | MW-35HO | APCO-GS-AP-MW-35HO | APCO_Gorgas_AshPond | | | GW G | G | 2/9/2022 | 11:46 | 1 | | | X | X | | | |
| 4 | BC02856 | MW-35HO DUP | APCO-GS-AP-MW-35HO | APCO_Gorgas_AshPond | X | | GW G | G | 2/9/2022 | 11:46 | 1 | | | X | X | | | |
| 5 | BC02857 | EB-1 | APCO-GS-AP-EB-01 | APCO_Gorgas_AshPond | | | GW G | G | 2/9/2022 | 12:52 | 1 | | | X | X | | | |
| 6 | BC02858 | MW-34HO | APCO-GS-AP-MW-34HO | APCO_Gorgas_AshPond | | | GW G | G | 2/9/2022 | 13:54 | 1 | | | X | X | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|-----------|------|---------------------------|-----------|------|-------------------|
| | Laura Midkiff / APC GTL | 2/10/2022 | 8:30 | <i>L. Midkiff</i> | 2-10-2022 | 9:55 | N Y Y |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dallas Gentry

SIGNATURE of SAMPLER: *Dallas Gentry*

DATE Signed: _____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Company Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5557 2008 7941

| | |
|------------|--------------|
| Label | <u>2A</u> |
| LIMS Login | <u>VPTJL</u> |

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue None

Cooler Temperature _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
 Temp should be above freezing to 6°C

| Comments: | pH paper Lot# | | | Date and Initials of person examining contents: | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|---|---|
| | Yes | No | N/A | <u>2-23-22 JA</u> | |
| Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. | |
| Sampler Name & Signature on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. | |
| -Includes date/time/ID Matrix: <u>WT</u> | | | | | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. | |
| Short Hold Time Analysis (<72hr remaining): | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. | |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. | |
| Correct Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. | |
| -Pace Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. | |
| Orthophosphate field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 12. | |
| Hex Cr Aqueous sample field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 13. | |
| Organic Samples checked for dechlorination: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 14. | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. | |
| All containers have been checked for preservation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. | |
| exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | | | | <u>pH < 2</u> | |
| All containers meet method preservation requirements. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>JA</u> | Date/time of preservation |
| | | | | Lot # of added preservative | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 17. | |
| Trip Blank Present: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 18. | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Rad Samples Screened < 0.5 mrem/hr | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>JA</u> | Date: <u>2-23-22</u> Survey Meter SN: <u>1563</u> |

W0#: 30467358
 PM: AES Due Date: 03/08/22
 CLIENT: ALABAMA PMR

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Par

WO#: 30467358

er Count

PM: AES Due Date: 03/08/22

CLIENT: ALABAMA PWR

Profile Number 16788

Client Alabama Power Company
Site Plant Gorgas Ash Pond

Notes

| Sample Line Item | Matrix | AG1H | AG1S | AG1T | AG2U | AG3S | AG3U | AG5U | AG5T | BG1U | BG2U | BP1N | BP1U | BP2S | BP2U | BP3C | BP3N | BP3S | BP3U | DG9S | GCUB | VG9H | VG9T | VG9U | VOAK | WGFU | WGKU | ZPLC |
|------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | WT | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| 2 | WT | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| 3 | WT | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| 4 | WT | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| 5 | WT | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| 6 | WT | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Container Codes

| Glass | |
|-------|------------------------------------|
| GJN | 1 Gallon Jug with HNO3 |
| AG5U | 100mL amber glass unpreserved |
| AG5T | 100mL amber glass Na Thiosulfate |
| GJN | 1 Gallon Jug |
| AG1S | 1L amber glass H2SO4 |
| AG1H | 1L amber glass HCl |
| AG1T | 1L amber glass Na Thiosulfate |
| BG1U | 1L clear glass unpreserved |
| AG3S | 250mL amber glass H2SO4 |
| AG3U | 250mL amber glass unpreserved |
| DG9S | 40mL amber VOA via H2SO4 |
| VG9U | 40mL clear VOA vial |
| VG9T | 40mL clear VOA vial Na Thiosulfate |
| VG9H | 40mL clear VOA vial HCl |
| JGFU | 4oz amber wide jar |
| WGFU | 4oz wide jar unpreserved |
| BG2U | 500mL clear glass unpreserved |
| AG2U | 500mL amber glass unpreserved |
| WGKU | 8oz wide jar unpreserved |

| Plastic / Misc. | |
|-----------------|-------------------------------|
| GCUB | 1 Gallon Cubitainer |
| 12GN | 1/2 Gallon Cubitainer |
| SP5T | 120mL Coliform Na Thiosulfate |
| BP1N | 1L plastic HNO3 |
| BP1U | 1L plastic unpreserved |
| BP3S | 250mL plastic H2SO4 |
| BP3N | 250mL plastic HNO3 |
| BP3U | 250mL plastic unpreserved |
| BP3C | 250ml plastic NAOH |
| BP2S | 500mL plastic H2SO4 |
| BP2U | 500mL plastic unpreserved |

| | |
|------|------------------------|
| EZI | 5g Encofe |
| VOAK | Kit for Volatile Solid |
| I | Wipe/Swab |
| ZPLC | Ziploc Bag |

| | |
|----|--------------------|
| WT | Water |
| SL | Solid |
| OL | Non-aqueous liquid |
| WP | Wipe |



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/2/2022
Worklist: 65308
Matrix: W1

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2353489 |
| MB concentration: | 0.511 |
| MB 2 Sigma CSU: | 0.307 |
| MB MDC: | 0.554 |
| MB Numerical Performance Indicator: | 3.27 |
| MB Status vs Numerical Indicator: | Fail |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCSD (Y or N)? | N |
|---|----------|----------------|-----------|
| Count Date: | 3/4/2022 | LCSD65308 | LCSD65308 |
| Spike ID: | 21-029 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 36.128 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.817 | | |
| Target Conc. (pCi/mL, g, F): | 4.421 | | |
| Uncertainty (Calculated): | 0.217 | | |
| Result (pCi/mL, g, F): | 3.377 | | |
| LCSD/CSU 2 Sigma CSU (pCi/mL, g, F): | 0.855 | | |
| Numerical Performance Indicator: | -2.32 | | |
| Percent Recovery: | 76.38% | | |
| Status vs Numerical Indicator: | N/A | | |
| Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 135% | | |
| Lower % Recovery Limits: | 60% | | |

| Duplicate Sample Assessment | | Sample I.D.: | Enter Duplicate sample IDs if other than LCSD/CSU in the space below: |
|---|--|--------------|---|
| Duplicate Sample I.D.: | | | |
| Sample Result (pCi/mL, g, F): | | | |
| Sample Result 2 Sigma CSU (pCi/mL, g, F): | | | |
| Sample Duplicate Result (pCi/mL, g, F): | | | |
| Sample Duplicate Result 2 Sigma CSU (pCi/mL, g, F): | | | |
| Are sample and/or duplicate results below RL? | | | |
| Duplicate Numerical Performance Indicator: | | | |
| Duplicate RPD: | | | |
| Duplicate Status vs Numerical Indicator: | | | |
| Duplicate Status vs RPD: | | | |
| % RPD Limit: | | | |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|----------|
| Sample Collection Date: | 2/1/2022 | | |
| Sample I.D.: | 30465804010 | | |
| Sample MS I.D.: | 30465804024 | | |
| Sample MSD I.D.: | 30465804025 | | |
| Spike I.D.: | 21-029 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 36.499 | | |
| Spike Volume Used in MS (mL): | 0.20 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.803 | | |
| MS Target Conc. (pCi/mL, g, F): | 9.095 | | |
| MSD Aliquot (L, g, F): | 0.816 | | |
| MSD Target Conc. (pCi/mL, g, F): | 8.951 | | |
| MS Spike Uncertainty (calculated): | 0.446 | | |
| MSD Spike Uncertainty (calculated): | 0.439 | | |
| MS/MSD Lower % Recovery Limits: | 60% | | |
| MS/MSD Upper % Recovery Limits: | 135% | | |
| MS/MSD Lower % Recovery Limits: | 60% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | | Sample I.D. | Sample MS I.D. | Sample MSD I.D. |
|--|--|-------------|----------------|-----------------|
| Sample I.D.: | | 30465804010 | | |
| Sample MS I.D.: | | 30465804024 | | |
| Sample MSD I.D.: | | 30465804025 | | |
| Matrix Spike Result: | | 7.740 | | |
| Matrix Spike Result 2 Sigma CSU (pCi/mL, g, F): | | 1.677 | | |
| Matrix Matrix Spike Duplicate Result: | | 8.256 | | |
| Matrix Matrix Spike Duplicate Result 2 Sigma CSU (pCi/mL, g, F): | | 1.682 | | |
| Duplicate Numerical Performance Indicator: | | -0.426 | | |
| Duplicate Percent Recovery: | | 8.50% | | |
| Duplicate Status vs Numerical Indicator: | | Pass | | |
| Duplicate Status vs RPD: | | Pass | | |
| % RPD Limit: | | 36% | | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepped.

243/8/22

3/2/22

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: JC2
Date: 2/24/2022
Worklist: 65252
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2349793 |
| MB Concentration: | 0.073 |
| MB Counting Uncertainty: | 0.074 |
| MB MDC: | 0.139 |
| MB Numerical Performance Indicator: | 1.94 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCS# (Y or N)? | LCS# |
|---|-----------|----------------|------|
| Count Date: | 3/17/2022 | LCS#65252 | N |
| Spike I.D.: | 19-033 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 24.029 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.508 | | |
| Target Conc. (pCi/L, g, F): | 4.729 | | |
| Uncertainty (Calculated): | 0.057 | | |
| Result (pCi/L, g, F): | 4.852 | | |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.464 | | |
| Numerical Performance Indicator: | 0.52 | | |
| Percent Recovery: | 102.60% | | |
| Status vs Numerical Indicator: | N/A | | |
| Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 125% | | |
| Lower % Recovery Limits: | 75% | | |

| Duplicate Sample Assessment | |
|---|---|
| Sample I.D.: | Duplicate Sample I.D.: |
| Sample Result (pCi/L, g, F): | Sample Result (pCi/L, g, F): |
| Sample Result Counting Uncertainty (pCi/L, g, F): | Sample Duplicate Result (pCi/L, g, F): |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): |
| Are sample and/or duplicate results below RL? : | See Below ## |
| Duplicate Numerical Performance Indicator: | Duplicate RPD: |
| Duplicate Status vs Numerical Indicator: | Duplicate Status vs Numerical Indicator: |
| Duplicate Status vs RPD: | Duplicate Status vs RPD: |
| % RPD Limit: | % RPD Limit: |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|----------|
| Sample Collection Date: | 2/1/2022 | | |
| Sample I.D.: | 30465804010 | | |
| Sample MS I.D.: | 30465804024 | | |
| Sample MSD I.D.: | 30465804025 | | |
| Spike I.D.: | 19-033 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.030 | | |
| Spike Volume Used in MS (mL): | 0.20 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.251 | | |
| MS Target Conc. (pCi/L, g, F): | 19.115 | | |
| MSD Aliquot (L, g, F): | 0.255 | | |
| MSD Target Conc. (pCi/L, g, F): | 18.846 | | |
| MSD Spike Uncertainty (calculated): | 0.229 | | |
| MSD Spike Uncertainty (calculated): | 0.226 | | |
| Sample Result: | 0.117 | | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.168 | | |
| Sample Matrix Spike Result: | 19.262 | | |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 1.304 | | |
| Sample Matrix Spike Duplicate Result: | 17.231 | | |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.289 | | |
| MS Numerical Performance Indicator: | -0.115 | | |
| MSD Numerical Performance Indicator: | -2.734 | | |
| MS Percent Recovery: | 99.58% | | |
| MSD Percent Recovery: | 90.23% | | |
| MS Status vs Numerical Indicator: | N/A | | |
| MSD Status vs Numerical Indicator: | N/A | | |
| MS Status vs Recovery: | Pass | | |
| MSD Status vs Recovery: | Pass | | |
| MS/MSD Upper % Recovery Limits: | 125% | | |
| MS/MSD Lower % Recovery Limits: | 75% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30465804010 |
| Sample MS I.D.: | 30465804024 |
| Sample MSD I.D.: | 30465804025 |
| Sample Matrix Spike Result: | 19.262 |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 1.304 |
| Sample Matrix Spike Duplicate Result: | 17.231 |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.289 |
| Duplicate Numerical Performance Indicator: | 2.172 |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 9.98% |
| MS/MSD Duplicate Status vs Numerical Indicator: | N/A |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

QC 3/14/22

WAM 3/14/22

Quality Control Sample Performance Assessment



Test: Ra-226
 Analyst: JIC2
 Date: 2/24/2022
 Worklist: 65252
 Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2349793 |
| MB Concentration: | 0.073 |
| MB Counting Uncertainty: | 0.074 |
| MB MDC: | 0.139 |
| MB Numerical Performance Indicator: | 1.94 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs MDC: | Pass |

| Laboratory Control Sample Assessment | | LCSD (Y or N)? | LCSD65252 |
|---|-----------|----------------|-----------|
| Count Date: | 3/11/2022 | | |
| Spike I.D.: | 19-033 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 24.029 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.508 | | |
| Target Conc. (pCi/L, g, F): | 4.729 | | |
| Uncertainty (Calculated): | 0.057 | | |
| Result (pCi/L, g, F): | 4.852 | | |
| LCSD Counting Uncertainty (pCi/L, g, F): | 0.464 | | |
| Numerical Performance Indicator: | 0.52 | | |
| Percent Recovery: | 102.60% | | |
| Status vs Numerical Indicator: | N/A | | |
| Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 125% | | |
| Lower % Recovery Limits: | 75% | | |

| Duplicate Sample Assessment | |
|--|--|
| Sample I.D.: | Duplicate Sample I.D.: |
| Sample Result (pCi/L, g, F): | Sample Result (pCi/L, g, F): |
| Sample Result Counting Uncertainty (pCi/L, g, F): | Sample Result Counting Uncertainty (pCi/L, g, F): |
| Sample Duplicate Result (pCi/L, g, F): | Sample Duplicate Result (pCi/L, g, F): |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | Sample Duplicate Counting Uncertainty (pCi/L, g, F): |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|----------|
| Sample Collection Date: | 2/9/2022 | | |
| Sample I.D.: | 30467365002 | | |
| Sample MS I.D.: | 30467365005 | | |
| Sample MSD I.D.: | 30467365006 | | |
| Spike I.D.: | 19-033 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.030 | | |
| Spike Volume Used in MS (mL): | 0.20 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.253 | | |
| MS Target Conc. (pCi/L, g, F): | 19.016 | | |
| MSD Aliquot (L, g, F): | 0.251 | | |
| MSD Target Conc. (pCi/L, g, F): | 19.134 | | |
| MS Spike Uncertainty (calculated): | 0.228 | | |
| MSD Spike Uncertainty (calculated): | 0.230 | | |
| Sample Result: | 0.139 | | |
| Sample Matrix Spike Result: | 0.153 | | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 20.661 | | |
| Sample Matrix Spike Result: | 1.359 | | |
| Sample Matrix Spike Duplicate Result: | 17.738 | | |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.289 | | |
| MS Numerical Performance Indicator: | 2.114 | | |
| MSD Numerical Performance Indicator: | -2.317 | | |
| MS Percent Recovery: | 107.87% | | |
| MSD Percent Recovery: | 91.98% | | |
| MS Status vs Numerical Indicator: | N/A | | |
| MSD Status vs Numerical Indicator: | N/A | | |
| MS Status vs Recovery: | Pass | | |
| MSD Status vs Recovery: | Pass | | |
| MS/MSD Upper % Recovery Limits: | 125% | | |
| MS/MSD Lower % Recovery Limits: | 75% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30467365002 |
| Sample MS I.D.: | 30467365005 |
| Sample MSD I.D.: | 30467365006 |
| Sample Matrix Spike Result: | 20.651 |
| Sample Matrix Spike Duplicate Result: | 17.738 |
| Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): | 1.359 |
| Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): | 1.269 |
| Duplicate Numerical Performance Indicator: | 3.071 |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 15.90% |
| MS/MSD Duplicate Status vs Numerical Indicator: | N/A |
| MS/MSD Duplicate Status vs RPD: | Pass |
| MS/MSD Duplicate Status vs RPD: | 25% |
| % RPD Limit: | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.
 Comments:

3/11/22

3/11/22

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative



Gorgas Ash Pond

Radium Resample Request 2022 Event 1

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

All pH field readings for well MW-16S were qualified due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verifications for all required field parameters were performed daily, before and after sample collection.

July 12, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGORAP_1364
Pace Project No.: 30489569

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGORAP_1364
Pace Project No.: 30489569

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1364
Pace Project No.: 30489569

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 30489569001 | BC09151 FB-1 | Water | 05/10/22 11:10 | 05/17/22 10:05 |
| 30489569002 | BC09152 MW-25HA | Water | 05/10/22 12:15 | 05/17/22 10:05 |
| 30489569003 | BC09153 MW-36H | Water | 05/10/22 15:23 | 05/17/22 10:05 |
| 30489569004 | BC09153 MW-36H MS | Water | 05/10/22 15:23 | 05/17/22 10:05 |
| 30489569005 | BC09153 MW-36H MSD | Water | 05/10/22 15:23 | 05/17/22 10:05 |
| 30489569006 | BC09154 MW-16S | Water | 05/11/22 08:37 | 05/17/22 10:05 |
| 30489569007 | BC09155 MW-16S Dup | Water | 05/11/22 08:37 | 05/17/22 10:05 |
| 30489569008 | BC09156 MW-17V | Water | 05/11/22 10:00 | 05/17/22 10:05 |
| 30489569009 | BC09157 EB-1 | Water | 05/11/22 10:05 | 05/17/22 10:05 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1364
Pace Project No.: 30489569

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|-------------------|------------|
| 30489569001 | BC09151 FB-1 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30489569002 | BC09152 MW-25HA | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30489569003 | BC09153 MW-36H | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30489569004 | BC09153 MW-36H MS | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30489569005 | BC09153 MW-36H MSD | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30489569006 | BC09154 MW-16S | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30489569007 | BC09155 MW-16S Dup | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30489569008 | BC09156 MW-17V | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30489569009 | BC09157 EB-1 | EPA 9315 | JC2 | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1364

Pace Project No.: 30489569

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: July 12, 2022

General Information:

9 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1364

Pace Project No.: 30489569

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: July 12, 2022

General Information:

9 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1364

Pace Project No.: 30489569

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: July 12, 2022

General Information:

7 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1364

Pace Project No.: 30489569

Sample: BC09151 FB-1 **Lab ID: 30489569001** Collected: 05/10/22 11:10 Received: 05/17/22 10:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.289U ± 0.197 (0.316) C:92% T:NA | pCi/L | 07/08/22 09:00 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.660U ± 0.408 (0.770) C:74% T:95% | pCi/L | 06/29/22 11:47 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.949U ± 0.605 (1.09) | pCi/L | 07/11/22 22:41 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1364

Pace Project No.: 30489569

Sample: BC09152 MW-25HA **Lab ID: 30489569002** Collected: 05/10/22 12:15 Received: 05/17/22 10:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0963U ± 0.148 (0.324) C:92% T:NA | pCi/L | 07/08/22 09:00 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.469U ± 0.362 (0.714) C:72% T:96% | pCi/L | 06/29/22 11:47 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.565U ± 0.510 (1.04) | pCi/L | 07/11/22 22:41 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1364

Pace Project No.: 30489569

Sample: BC09153 MW-36H **Lab ID: 30489569003** Collected: 05/10/22 15:23 Received: 05/17/22 10:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.187U ± 0.173 (0.321) C:81% T:NA | pCi/L | 07/08/22 09:00 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.838 ± 0.443 (0.787) C:71% T:87% | pCi/L | 06/29/22 11:47 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.03U ± 0.616 (1.11) | pCi/L | 07/11/22 22:41 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1364

Pace Project No.: 30489569

Sample: BC09153 MW-36H MS **Lab ID: 30489569004** Collected: 05/10/22 15:23 Received: 05/17/22 10:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 95.09 %REC ± NA (NA) C:NA T:NA | pCi/L | 07/08/22 12:37 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 109.64 %REC ± NA (NA) C:NA T:NA | pCi/L | 06/29/22 11:47 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1364

Pace Project No.: 30489569

Sample: BC09153 MW-36H MSD **Lab ID: 30489569005** Collected: 05/10/22 15:23 Received: 05/17/22 10:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 92.60 %REC 2.66 RPD ± NA (NA) C:NA T:NA | pCi/L | 07/08/22 12:37 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 90.75 %REC 18.85 RPD ± NA (NA) C:NA T:NA | pCi/L | 06/29/22 11:47 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1364

Pace Project No.: 30489569

Sample: BC09154 MW-16S **Lab ID: 30489569006** Collected: 05/11/22 08:37 Received: 05/17/22 10:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.215 ± 0.123 (0.193) C:92% T:NA | pCi/L | 07/08/22 12:37 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.531U ± 0.377 (0.726) C:68% T:94% | pCi/L | 06/29/22 11:47 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.746U ± 0.500 (0.919) | pCi/L | 07/11/22 22:41 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1364

Pace Project No.: 30489569

Sample: BC09155 MW-16S Dup **Lab ID: 30489569007** Collected: 05/11/22 08:37 Received: 05/17/22 10:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.145U ± 0.114 (0.204) C:90% T:NA | pCi/L | 07/08/22 12:37 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.113U ± 0.303 (0.680) C:72% T:89% | pCi/L | 06/29/22 11:48 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.258U ± 0.417 (0.884) | pCi/L | 07/11/22 22:41 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1364

Pace Project No.: 30489569

Sample: BC09156 MW-17V **Lab ID: 30489569008** Collected: 05/11/22 10:00 Received: 05/17/22 10:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.160U ± 0.114 (0.202) C:93% T:NA | pCi/L | 07/08/22 12:37 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.393U ± 0.355 (0.716) C:73% T:87% | pCi/L | 06/29/22 11:48 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.553U ± 0.469 (0.918) | pCi/L | 07/11/22 22:41 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1364

Pace Project No.: 30489569

Sample: BC09157 EB-1 **Lab ID: 30489569009** Collected: 05/11/22 10:05 Received: 05/17/22 10:05 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.0196U ± 0.104 (0.265) C:89% T:NA | pCi/L | 07/08/22 12:37 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.879 ± 0.415 (0.701) C:72% T:94% | pCi/L | 06/29/22 11:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.879U ± 0.519 (0.966) | pCi/L | 07/11/22 22:41 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORAP_1364

Pace Project No.: 30489569

QC Batch: 510503

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30489569001, 30489569002, 30489569003, 30489569004, 30489569005, 30489569006, 30489569007, 30489569008, 30489569009

METHOD BLANK: 2474493

Matrix: Water

Associated Lab Samples: 30489569001, 30489569002, 30489569003, 30489569004, 30489569005, 30489569006, 30489569007, 30489569008, 30489569009

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-226 | 0.000 ± 0.0853 (0.228) C:80% T:NA | pCi/L | 07/08/22 09:00 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGORAP_1364
Pace Project No.: 30489569

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1364
Pace Project No.: 30489569

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|--------------------------|----------|-------------------|------------------|
| 30489569001 | BC09151 FB-1 | EPA 9315 | 510503 | | |
| 30489569002 | BC09152 MW-25HA | EPA 9315 | 510503 | | |
| 30489569003 | BC09153 MW-36H | EPA 9315 | 510503 | | |
| 30489569004 | BC09153 MW-36H MS | EPA 9315 | 510503 | | |
| 30489569005 | BC09153 MW-36H MSD | EPA 9315 | 510503 | | |
| 30489569006 | BC09154 MW-16S | EPA 9315 | 510503 | | |
| 30489569007 | BC09155 MW-16S Dup | EPA 9315 | 510503 | | |
| 30489569008 | BC09156 MW-17V | EPA 9315 | 510503 | | |
| 30489569009 | BC09157 EB-1 | EPA 9315 | 510503 | | |
| 30489569001 | BC09151 FB-1 | EPA 9320 | 510502 | | |
| 30489569002 | BC09152 MW-25HA | EPA 9320 | 510502 | | |
| 30489569003 | BC09153 MW-36H | EPA 9320 | 510502 | | |
| 30489569004 | BC09153 MW-36H MS | EPA 9320 | 510502 | | |
| 30489569005 | BC09153 MW-36H MSD | EPA 9320 | 510502 | | |
| 30489569006 | BC09154 MW-16S | EPA 9320 | 510502 | | |
| 30489569007 | BC09155 MW-16S Dup | EPA 9320 | 510502 | | |
| 30489569008 | BC09156 MW-17V | EPA 9320 | 510502 | | |
| 30489569009 | BC09157 EB-1 | EPA 9320 | 510502 | | |
| 30489569001 | BC09151 FB-1 | Total Radium Calculation | 517870 | | |
| 30489569002 | BC09152 MW-25HA | Total Radium Calculation | 517870 | | |
| 30489569003 | BC09153 MW-36H | Total Radium Calculation | 517870 | | |
| 30489569006 | BC09154 MW-16S | Total Radium Calculation | 517870 | | |
| 30489569007 | BC09155 MW-16S Dup | Total Radium Calculation | 517870 | | |
| 30489569008 | BC09156 MW-17V | Total Radium Calculation | 517870 | | |
| 30489569009 | BC09157 EB-1 | Total Radium Calculation | 517870 | | |

REPORT OF LABORATORY ANALYSIS

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WO#: 30489569



CHAIN-OF-1
The Chain-of-Custody

It stated accurately.

Section B
Required Project Information:
 Report To: Brooke Catton
 Copy To: Renee Jernigan & Blaine Denton
 Purchase Order #: APC1075638
 Project Name: Plant Gorgas Ash Pond
 Project Number: WMWGORAP_1364
 Requested Due Date: 28 days

Section A
Required Client Information:
 Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: tbwill@alpower.com
 Phone: 205-664-6101 | Fax
 Requested Due Date: 28 days

Invoice Information:
 Attention: Brooke Catton
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Address: CCR
 Pace Quote: Skyler Richmond
 Pace Project Manager: 16788
 Pace Profile #:

Regulatory Agency:
 State / Location: AL

| ITEM # | Description | Station Name Location_ID | Site Name Facility_ID | Matrix Spike/Matrix Spike Duplicate | Field Filtered | Matrix Code (see valid codes to left) | Sample Type (G=GRAB G=COMP) | COLLECTED | | # OF CONTAINERS | Preservatives | Y/N | Requested Analysis Filtered (Y/N) | | | | Residual Chlorine (Y/N) |
|--------|-----------------------|--------------------------|-----------------------|-------------------------------------|----------------|---------------------------------------|-----------------------------|-----------|-------|-----------------|---------------|-----|-----------------------------------|----------|------------------|---|-------------------------|
| | | | | | | | | DATE | TIME | | | | EPA 9315 | EPA 9320 | Total Radium Sum | | |
| 1 | BC09151 FB-1 | APCO-GS-AP-FB-01 | APCO_Gorgas_AshPond | | | GW G | | 4/26/2022 | 11:30 | 1 | | | X | X | X | X | 001 |
| 2 | BC09152 MW-25HA | APCO-GS-AP-MW-25HA | APCO_Gorgas_AshPond | | | GW G | | 4/26/2022 | 13:22 | 1 | | | X | X | X | X | 002 |
| 3 | BC09153 MW-36H | APCO-GS-AP-MW-36H | APCO_Gorgas_AshPond | X | | GW G | | 4/26/2022 | 15:30 | 3 | | | X | X | X | X | 003, 004, 005 |
| 4 | BC09154 MW-16S | APCO-GS-AP-MW-16S | APCO_Gorgas_AshPond | | | GW G | | 4/27/2022 | 10:25 | 1 | | | X | X | X | X | 006 |
| 5 | BC09155 MW-16S Dup | APCO-GS-AP-MW-16S | APCO_Gorgas_AshPond | X | | GW G | | 4/27/2022 | 12:05 | 1 | | | X | X | X | X | 007 |
| 6 | BC09156 MW-17V | APCO-GS-AP-MW-17V | APCO_Gorgas_AshPond | | | GW G | | 4/27/2022 | 13:25 | 1 | | | X | X | X | X | 008 |
| 7 | BC09157 EB-1 | APCO-GS-AP-EB-01 | APCO_Gorgas_AshPond | | | GW G | | 4/27/2022 | 13:25 | 1 | | | X | X | X | X | 009 |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Brooke Catton / APC GTL
 DATE: 5/1/2022
 TIME: 15:08

ACCEPTED BY / AFFILIATION: *[Signature]*
 DATE: 5-7-22
 TIME: 10:05

TEMP in C: _____
 Received on: _____
 Sealed: _____
 Cooled: _____
 Custody: _____
 (Y/N) _____
 Samples: _____
 (Y/N) _____
 Interact: _____
 (Y/N) _____

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Anthony Goggins
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: _____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Company Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5701 6585 2797

Label JA
LIMS Login: APInt

MS
JA
5-17-22

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue None

Cooler Temperature _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

pH paper Lot# 10D4611 Date and Initials of person examining contents: 5-17-22 JA

| Comments: | Yes No N/A | | | 16. Added 2.5 mL HNO3 to 002 |
|--|-------------------------------------|-------------------------------------|-------------------------------------|---|
| | Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Sampler Name & Signature on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Date + Time on 001 5-10-22 11:10 Date + Time on 002 5-10-22 12:15 Date + Time on 003, 004, 005 5-10-22 15:23 |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Short Hold Time Analysis (<72hr remaining): | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Correct Containers Used: -Pace Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Orthophosphate field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Hex Cr Aqueous sample field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Organic Samples checked for dechlorination: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| All containers meet method preservation requirements. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Initial when completed <u>JA</u> Date/time of preservation <u>5-17-22 14:47</u> Lot # of added preservative <u>DL22-0473</u> |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Trip Blank Present: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Rad Samples Screened < 0.5 mrem/hr | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>JA</u> Date: <u>5-17-22</u> Survey Meter SN: <u>1563</u> |

MO#: 30489569
PM: SCR Due Date: 06/08/22
CLIENT: ALABAMA PWR

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution:
Date + Time on 006 5-11-22 8:37
Date + Time on 007 5-11-22 8:37
Date + Time on 008 5-11-22 10:00
Date + Time on 009 5-11-22 10:05

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 6/16/2022
Worklist: 67109
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2474491 |
| MB concentration: | 0.619 |
| MB 2 Sigma CSU: | 0.362 |
| MB MDC: | 0.653 |
| MB Numerical Performance Indicator: | 3.35 |
| MB Status vs Numerical Indicator: | Fail* |
| MB Status vs MDC: | Pass |

| Laboratory Control Sample Assessment | |
|---|----------|
| Count Date: | N |
| LCS67109 | LCS67109 |
| 6/29/2022 | |
| Spike I.D.: | 22-016 |
| Decay Corrected Spike Concentration (pCi/mL): | 35.215 |
| Volume Used (mL): | 0.10 |
| Aliquot Volume (L, g, F): | 0.803 |
| Target Conc. (pCi/L, g, F): | 4.385 |
| Uncertainty (Calculated): | 0.215 |
| Result (pCi/L, g, F): | 4.082 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.968 |
| Numerical Performance Indicator: | -0.60 |
| Percent Recovery: | 93.11% |
| Status vs Numerical Indicator: | N/A |
| Status vs Recovery: | Pass |
| Upper % Recovery Limits: | 135% |
| Lower % Recovery Limits: | 60% |

| Duplicate Sample Assessment | |
|--|---|
| Sample I.D.: | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D.: | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL?: | |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: *If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.
MS activity < MDC, Pass (M 6/30/22)

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|--|-------------|-------------|
| Sample Collection Date: | 5/10/2022 | 5/9/2022 |
| Sample I.D.: | 30489569003 | 30493174001 |
| Sample MS I.D.: | 30489569004 | 30493174002 |
| Sample MSD I.D.: | 30489569005 | 30493174003 |
| Spike I.D.: | 22-016 | 22-016 |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 35.801 | 35.801 |
| Spike Volume Used in MS (mL): | 0.20 | 0.20 |
| Spike Volume Used in MSD (mL): | 0.20 | 0.20 |
| MS Aliquot (L, g, F): | 0.801 | 0.803 |
| MS Target Conc. (pCi/L, g, F): | 8.938 | 8.921 |
| MSD Aliquot (L, g, F): | 0.804 | 0.801 |
| MSD Target Conc. (pCi/L, g, F): | 8.907 | 8.938 |
| MS Spike Uncertainty (calculated): | 0.438 | 0.437 |
| MSD Spike Uncertainty (calculated): | 0.436 | 0.438 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.838 | 0.715 |
| Sample Matrix Spike Result: | 0.443 | 0.379 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 10.638 | 8.937 |
| Sample Matrix Spike Duplicate Result: | 2.123 | 1.805 |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 8.922 | 9.793 |
| MS Numerical Performance Indicator: | 1.823 | 1.967 |
| MSD Numerical Performance Indicator: | 0.763 | -0.722 |
| MS Percent Recovery: | 109.64% | 92.17% |
| MSD Percent Recovery: | 90.75% | 101.58% |
| MS Status vs Numerical Indicator: | Pass | Pass |
| MSD Status vs Numerical Indicator: | Pass | Pass |
| MS Status vs Recovery: | Pass | Pass |
| MSD Status vs Recovery: | Pass | Pass |
| MS/MSD Upper % Recovery Limits: | 135% | 135% |
| MS/MSD Lower % Recovery Limits: | 60% | 60% |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|--|-------------|
| Sample I.D.: | 30489569003 |
| Sample MS I.D.: | 30489569004 |
| Sample MSD I.D.: | 30489569005 |
| Sample Matrix Spike Result: | 10.638 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 2.123 |
| Sample Matrix Spike Duplicate Result: | 8.922 |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.823 |
| Duplicate Numerical Performance Indicator: | 1.202 |
| Duplicate RPD: | 18.85% |
| Duplicate Status vs Numerical Indicator: | Pass |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 6/18/2022
Worklist: 67110
Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2474493 |
| MB concentration: | 0.000 |
| M/B Counting Uncertainty: | 0.085 |
| MB MDC: | 0.228 |
| MB Numerical Performance Indicator: | 0.00 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | |
|---|----------------|----------|
| | LCSD67110 | Y |
| Count Date: | 7/8/2022 | 7/8/2022 |
| Spike I.D.: | 19-033 | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.026 | 24.026 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.503 | 0.509 |
| Target Conc. (pCi/L, g, F): | 4.773 | 4.717 |
| Uncertainty (Calculated): | 0.057 | 0.057 |
| Result (pCi/L, g, F): | 5.036 | 4.446 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 0.337 | 0.309 |
| Numerical Performance Indicator: | 1.50 | -1.69 |
| Percent Recovery: | 105.50% | 94.24% |
| Status vs Numerical Indicator: | N/A | N/A |
| Status vs Recovery: | Pass | Pass |
| Upper % Recovery Limits: | 125% | 125% |
| Lower % Recovery Limits: | 75% | 75% |

| Duplicate Sample Assessment | |
|---|-----------|
| Sample I.D.: | LCSD67110 |
| Duplicate Sample I.D.: | LCSD67110 |
| Sample Result (pCi/L, g, F): | 5.036 |
| Duplicate Result (pCi/L, g, F): | 0.337 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 4.446 |
| Sample Duplicate Result (pCi/L, g, F): | 0.309 |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | NO |
| Are sample and/or duplicate results below RL? | 2.527 |
| Duplicate Numerical Performance Indicator: | 11.27% |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | N/A |
| Duplicate Status vs Numerical Indicator: | Pass |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature and date: 7/11/22

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|---|-------------|-------------|
| Sample Collection Date: | 5/10/2022 | 5/9/2022 |
| Sample I.D.: | 30489569003 | 30493174001 |
| Sample MS I.D.: | 30489569004 | 30493174002 |
| Sample MSD I.D.: | 30489569005 | 30493174003 |
| Spike I.D.: | 19-033 | 19-033 |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.027 | 24.027 |
| Spike Volume Used in MS (mL): | 0.20 | 0.20 |
| Spike Volume Used in MSD (mL): | 0.20 | 0.20 |
| MS Aliquot (L, g, F): | 0.304 | 0.306 |
| MS Target Conc. (pCi/L, g, F): | 15.814 | 15.699 |
| MSD Aliquot (L, g, F): | 0.323 | 0.292 |
| MSD Target Conc. (pCi/L, g, F): | 14.865 | 16.451 |
| MS Numerical Performance Indicator: | 0.190 | 0.188 |
| MSD Spike Uncertainty (calculated): | 0.178 | 0.197 |
| Sample Result: | 0.187 | 0.069 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.171 | 0.121 |
| Sample Matrix Spike Result: | 15.225 | 15.841 |
| Sample Spike Result Counting Uncertainty (pCi/L, g, F): | 0.765 | 1.102 |
| Sample Matrix Spike Duplicate Result: | 13.951 | 17.415 |
| Sample Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.712 | 1.181 |
| MS Numerical Performance Indicator: | -1.885 | 0.127 |
| MS Percent Recovery: | 95.09% | 100.46% |
| MSD Percent Recovery: | 92.60% | 105.44% |
| MS Status vs Numerical Indicator: | N/A | N/A |
| MSD Status vs Numerical Indicator: | N/A | N/A |
| MS Status vs Recovery: | Pass | Pass |
| MSD Status vs Recovery: | Pass | Pass |
| MS/MSD Upper % Recovery Limits: | 125% | 125% |
| MS/MSD Lower % Recovery Limits: | 75% | 75% |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30489569003 |
| Sample MS I.D.: | 30489569004 |
| Sample MSD I.D.: | 30489569005 |
| Spike I.D.: | 15.225 |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 0.765 |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 13.951 |
| Sample Matrix Spike Duplicate Result: | 0.712 |
| Duplicate Numerical Performance Indicator: | 2.388 |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 2.66% |
| MS/MSD Duplicate Status vs Numerical Indicator: | N/A |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |



Gorgas Ash Pond

2022 Compliance Event 2

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Turbidity levels less than 10 NTU were not able to be achieved after extended pumping for wells MW-7 and MW-6V. A complete sample set for totals analysis was collected followed by a field filtered set for dissolved analysis.

Due to low yield, well MW-32H was sampled using the Minimal Purge Method, as defined in the SAP.

Three of the initial pH field readings for well MW-15 and all pH field readings for MW-16S were qualified due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Dusty conditions due to vehicle traffic were present when pumping and sampling well MW-30HA.

Suspected iron bacteria was present during initial pumping of wells MW-23H and MW-6S.

Misty conditions were present when pumping and sampling well MW-14R.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
 - Field Blank 5 (FB-5) and Equipment Blank 1 (EB-1) had results above the reporting limit for Aluminum.
- Calibration verifications for all required field parameters were performed daily, before and after sample collection.

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-2 | COND | Conductivity | 7/19/2022 9:22 | 424.09 | uS/cm |
| GS-AP-MW-2 | DO | DO | 7/19/2022 9:22 | 0.49 | mg/L |
| GS-AP-MW-2 | DTW | Depth to Water Detail | 7/19/2022 9:22 | 151.66 | ft |
| GS-AP-MW-2 | ORP | Oxidation Reduction Potention | 7/19/2022 9:22 | -240.44 | mv |
| GS-AP-MW-2 | PH | pH | 7/19/2022 9:22 | 9.51 | SU |
| GS-AP-MW-2 | TEMP | Temperature | 7/19/2022 9:22 | 19.13 | C |
| GS-AP-MW-2 | TURB | Turbidity | 7/19/2022 9:22 | 6.89 | NTU |
| GS-AP-MW-2 | COND | Conductivity | 7/19/2022 9:27 | 423.55 | uS/cm |
| GS-AP-MW-2 | DO | DO | 7/19/2022 9:27 | 0.29 | mg/L |
| GS-AP-MW-2 | DTW | Depth to Water Detail | 7/19/2022 9:27 | 151.79 | ft |
| GS-AP-MW-2 | ORP | Oxidation Reduction Potention | 7/19/2022 9:27 | -244.93 | mv |
| GS-AP-MW-2 | PH | pH | 7/19/2022 9:27 | 9.56 | SU |
| GS-AP-MW-2 | TEMP | Temperature | 7/19/2022 9:27 | 19.34 | C |
| GS-AP-MW-2 | TURB | Turbidity | 7/19/2022 9:27 | 9.15 | NTU |
| GS-AP-MW-2 | COND | Conductivity | 7/19/2022 9:32 | 422.4 | uS/cm |
| GS-AP-MW-2 | DO | DO | 7/19/2022 9:32 | 0.26 | mg/L |
| GS-AP-MW-2 | DTW | Depth to Water Detail | 7/19/2022 9:32 | 151.91 | ft |
| GS-AP-MW-2 | ORP | Oxidation Reduction Potention | 7/19/2022 9:32 | -247.09 | mv |
| GS-AP-MW-2 | PH | pH | 7/19/2022 9:32 | 9.57 | SU |
| GS-AP-MW-2 | TEMP | Temperature | 7/19/2022 9:32 | 19.19 | C |
| GS-AP-MW-2 | TURB | Turbidity | 7/19/2022 9:32 | 1.15 | NTU |
| GS-AP-MW-2 | COND | Conductivity | 7/19/2022 9:37 | 415.07 | uS/cm |
| GS-AP-MW-2 | DO | DO | 7/19/2022 9:37 | 0.26 | mg/L |
| GS-AP-MW-2 | DTW | Depth to Water Detail | 7/19/2022 9:37 | 151.98 | ft |
| GS-AP-MW-2 | ORP | Oxidation Reduction Potention | 7/19/2022 9:37 | -249.34 | mv |
| GS-AP-MW-2 | PH | pH | 7/19/2022 9:37 | 9.6 | SU |
| GS-AP-MW-2 | SULFIDE | Sulfide | 7/19/2022 9:37 | 1 | mg/L |
| GS-AP-MW-2 | TEMP | Temperature | 7/19/2022 9:37 | 19.03 | C |
| GS-AP-MW-2 | TURB | Turbidity | 7/19/2022 9:37 | 1.26 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 13:49 | 319.88 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 13:49 | 0.29 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 13:49 | 77.26 | ft |
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 13:49 | -52.66 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 13:49 | 6.78 | SU |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 13:49 | 18.65 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 13:49 | 85 | NTU |
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 13:54 | 345.24 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 13:54 | 0.25 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 13:54 | 77.26 | ft |
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 13:54 | -47.63 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 13:54 | 6.77 | SU |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 13:54 | 18.42 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 13:54 | 27 | NTU |
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 13:59 | 335.64 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 13:59 | 0.23 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 13:59 | 77.26 | ft |
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 13:59 | -50.41 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 13:59 | 6.77 | SU |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 13:59 | 18.34 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 13:59 | 25.4 | NTU |
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 14:04 | 341.17 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 14:04 | 0.24 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 14:04 | 77.26 | ft |
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 14:04 | -50.7 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 14:04 | 6.76 | SU |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 14:04 | 18.33 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 14:04 | 20.8 | NTU |
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 14:09 | 369.36 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 14:09 | 0.24 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 14:09 | 77.26 | ft |
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 14:09 | -48.45 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 14:09 | 6.71 | SU |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 14:09 | 18.3 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 14:09 | 18.2 | NTU |
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 14:14 | 380.44 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 14:14 | 0.25 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 14:14 | 77.26 | ft |
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 14:14 | -41.66 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 14:14 | 6.59 | SU |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 14:14 | 18.38 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 14:14 | 15.6 | NTU |
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 14:19 | 394.35 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 14:19 | 0.25 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 14:19 | 77.26 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 14:19 | -33.61 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 14:19 | 6.44 | SU |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 14:19 | 18.33 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 14:19 | 12.48 | NTU |
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 14:24 | 413.86 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 14:24 | 0.25 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 14:24 | 77.26 | ft |
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 14:24 | -26.26 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 14:24 | 6.29 | SU |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 14:24 | 18.26 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 14:24 | 7.65 | NTU |
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 14:29 | 417.22 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 14:29 | 0.25 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 14:29 | 77.26 | ft |
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 14:29 | -21.89 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 14:29 | 6.2 | SU |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 14:29 | 18.13 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 14:29 | 7.71 | NTU |
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 14:34 | 420.17 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 14:34 | 0.25 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 14:34 | 77.26 | ft |
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 14:34 | -19.57 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 14:34 | 6.15 | SU |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 14:34 | 18.15 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 14:34 | 7.08 | NTU |
| GS-AP-MW-11R | COND | Conductivity | 7/19/2022 14:39 | 420.83 | uS/cm |
| GS-AP-MW-11R | DO | DO | 7/19/2022 14:39 | 0.25 | mg/L |
| GS-AP-MW-11R | DTW | Depth to Water Detail | 7/19/2022 14:39 | 77.26 | ft |
| GS-AP-MW-11R | ORP | Oxidation Reduction Potention | 7/19/2022 14:39 | -19.11 | mv |
| GS-AP-MW-11R | PH | pH | 7/19/2022 14:39 | 6.13 | SU |
| GS-AP-MW-11R | SULFIDE | Sulfide | 7/19/2022 14:39 | 0 | mg/L |
| GS-AP-MW-11R | TEMP | Temperature | 7/19/2022 14:39 | 18.13 | C |
| GS-AP-MW-11R | TURB | Turbidity | 7/19/2022 14:39 | 6.3 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 11:13 | 324.81 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 11:13 | 0.43 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 11:13 | 77.14 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potention | 7/19/2022 11:13 | -145.77 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 11:13 | 7.6 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 11:13 | 19.38 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 11:13 | 0.43 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 11:18 | 325.74 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 11:18 | 0.28 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 11:18 | 79.28 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potention | 7/19/2022 11:18 | -151.05 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 11:18 | 7.61 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 11:18 | 19.13 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 11:18 | 0.46 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 11:23 | 324.9 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 11:23 | 0.26 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 11:23 | 80.83 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potention | 7/19/2022 11:23 | -153.7 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 11:23 | 7.63 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 11:23 | 19.14 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 11:23 | 0.54 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 11:28 | 325.24 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 11:28 | 0.4 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 11:28 | 81.33 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potention | 7/19/2022 11:28 | -163.39 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 11:28 | 7.97 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 11:28 | 20.83 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 11:28 | 0.36 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 11:33 | 298.86 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 11:33 | 0.41 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 11:33 | 81.68 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potention | 7/19/2022 11:33 | -231.73 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 11:33 | 9.71 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 11:33 | 20.69 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 11:33 | 0.48 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 11:38 | 300.11 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 11:38 | 0.54 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 11:38 | 81.94 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potention | 7/19/2022 11:38 | -215.78 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 11:38 | 9.74 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 11:38 | 20.86 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 11:38 | 0.91 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 11:43 | 301.7 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 11:43 | 0.61 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 11:43 | 82.32 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12 | ORP | Oxidation Reduction Potential | 7/19/2022 11:43 | -206 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 11:43 | 9.64 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 11:43 | 20.71 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 11:43 | 0.98 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 11:48 | 303.01 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 11:48 | 0.63 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 11:48 | 82.58 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potential | 7/19/2022 11:48 | -200.9 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 11:48 | 9.53 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 11:48 | 20.79 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 11:48 | 0.84 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 11:53 | 303.94 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 11:53 | 0.63 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 11:53 | 82.87 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potential | 7/19/2022 11:53 | -197.71 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 11:53 | 9.45 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 11:53 | 20.89 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 11:53 | 0.81 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 11:58 | 306.18 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 11:58 | 0.62 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 11:58 | 83.04 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potential | 7/19/2022 11:58 | -195.17 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 11:58 | 9.36 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 11:58 | 21.01 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 11:58 | 0.82 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 12:03 | 306.46 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 12:03 | 0.62 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 12:03 | 83.22 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potential | 7/19/2022 12:03 | -192.63 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 12:03 | 9.28 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 12:03 | 21.01 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 12:03 | 0.9 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 12:08 | 308.34 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 12:08 | 0.61 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 12:08 | 83.38 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potential | 7/19/2022 12:08 | -190.14 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 12:08 | 9.22 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 12:08 | 20.94 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 12:08 | 0.77 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 12:13 | 309.71 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 12:13 | 0.59 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 12:13 | 83.55 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potential | 7/19/2022 12:13 | -187 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 12:13 | 9.1 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 12:13 | 21.24 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 12:13 | 0.76 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 12:18 | 311.6 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 12:18 | 0.57 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 12:18 | 83.69 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potention | 7/19/2022 12:18 | -183.52 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 12:18 | 8.97 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 12:18 | 21.17 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 12:18 | 0.65 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 12:23 | 313.12 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 12:23 | 0.55 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 12:23 | 83.84 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potention | 7/19/2022 12:23 | -180.46 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 12:23 | 8.86 | SU |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 12:23 | 20.9 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 12:23 | 0.7 | NTU |
| GS-AP-MW-12 | COND | Conductivity | 7/19/2022 12:28 | 313.53 | uS/cm |
| GS-AP-MW-12 | DO | DO | 7/19/2022 12:28 | 0.54 | mg/L |
| GS-AP-MW-12 | DTW | Depth to Water Detail | 7/19/2022 12:28 | 83.96 | ft |
| GS-AP-MW-12 | ORP | Oxidation Reduction Potention | 7/19/2022 12:28 | -180.14 | mv |
| GS-AP-MW-12 | PH | pH | 7/19/2022 12:28 | 8.79 | SU |
| GS-AP-MW-12 | SULFIDE | Sulfide | 7/19/2022 12:28 | 0 | mg/L |
| GS-AP-MW-12 | TEMP | Temperature | 7/19/2022 12:28 | 21.13 | C |
| GS-AP-MW-12 | TURB | Turbidity | 7/19/2022 12:28 | 0.68 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 8:50 | 655.79 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 8:50 | 0.53 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 8:50 | 95.21 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 8:50 | -238.89 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 8:50 | 11.42 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 8:50 | 18.87 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 8:50 | 12.1 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 8:54 | 657.8 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 8:54 | 0.43 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 8:54 | 97.95 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 8:54 | -245.26 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 8:54 | 11.41 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 8:54 | 18.91 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 8:54 | 15.8 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 8:59 | 605.31 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 8:59 | 0.44 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 8:59 | 99.12 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 8:59 | -245.25 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 8:59 | 11.39 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 8:59 | 18.98 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 8:59 | 12.9 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:04 | 534.68 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:04 | 0.42 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:04 | 100.38 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 9:04 | -246.8 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:04 | 11.32 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:04 | 18.86 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:04 | 13.3 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:09 | 473.86 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:09 | 0.43 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:09 | 101.66 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 9:09 | -241.77 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:09 | 11.24 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:09 | 19.05 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:09 | 12.6 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:14 | 420.98 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:14 | 0.92 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:14 | 101.6 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 9:14 | -231.82 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:14 | 11.12 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:14 | 20.65 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:14 | 13.1 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:19 | 262.56 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:19 | 0.8 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:19 | 101.57 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12V | ORP | Oxidation Reduction Potential | 7/20/2022 9:19 | -226.65 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:19 | 10.71 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:19 | 20.67 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:19 | 11.4 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:24 | 216.97 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:24 | 0.77 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:24 | 101.57 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potential | 7/20/2022 9:24 | -210.73 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:24 | 9.95 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:24 | 20.73 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:24 | 11.39 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:29 | 224.2 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:29 | 0.81 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:29 | 101.58 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potential | 7/20/2022 9:29 | -205.81 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:29 | 9.61 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:29 | 20.68 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:29 | 10.38 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:34 | 233.15 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:34 | 0.83 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:34 | 101.6 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potential | 7/20/2022 9:34 | -202.22 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:34 | 9.41 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:34 | 20.83 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:34 | 9.42 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:39 | 237.26 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:39 | 0.79 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:39 | 101.62 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potential | 7/20/2022 9:39 | -202.25 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:39 | 9.32 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:39 | 20.98 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:39 | 10 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:44 | 247.93 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:44 | 0.77 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:44 | 101.68 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potential | 7/20/2022 9:44 | -200.36 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:44 | 9.19 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:44 | 21.15 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:44 | 10.76 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:49 | 257.3 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:49 | 0.81 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:49 | 101.71 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potential | 7/20/2022 9:49 | -198.87 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:49 | 9.07 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:49 | 21.21 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:49 | 11.75 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:54 | 267.42 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:54 | 0.8 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:54 | 101.75 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 9:54 | -197.07 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:54 | 8.96 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:54 | 21.27 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:54 | 13.1 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 9:59 | 275.66 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 9:59 | 0.79 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 9:59 | 101.79 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 9:59 | -194.14 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 9:59 | 8.89 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 9:59 | 21.36 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 9:59 | 12.25 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 10:04 | 265.96 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 10:04 | 0.87 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 10:04 | 101.76 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 10:04 | -192.67 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 10:04 | 8.79 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 10:04 | 21.85 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 10:04 | 11.06 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 10:09 | 256.21 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 10:09 | 0.87 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 10:09 | 101.6 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 10:09 | -188.12 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 10:09 | 8.68 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 10:09 | 21.93 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 10:09 | 8.14 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 10:14 | 261.27 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 10:14 | 0.87 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 10:14 | 101.57 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 10:14 | -183.71 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 10:14 | 8.6 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 10:14 | 21.98 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 10:14 | 6.42 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 10:19 | 257.72 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 10:19 | 0.87 | mg/L |
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 10:19 | 101.55 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 10:19 | -181.96 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 10:19 | 8.57 | SU |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 10:19 | 22.1 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 10:19 | 6.5 | NTU |
| GS-AP-MW-12V | COND | Conductivity | 7/20/2022 10:24 | 258.53 | uS/cm |
| GS-AP-MW-12V | DO | DO | 7/20/2022 10:24 | 0.88 | mg/L |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|------|
| GS-AP-MW-12V | DTW | Depth to Water Detail | 7/20/2022 10:24 | 101.51 | ft |
| GS-AP-MW-12V | ORP | Oxidation Reduction Potention | 7/20/2022 10:24 | -178.39 | mv |
| GS-AP-MW-12V | PH | pH | 7/20/2022 10:24 | 8.52 | SU |
| GS-AP-MW-12V | SULFIDE | Sulfide | 7/20/2022 10:24 | 0 | mg/L |
| GS-AP-MW-12V | TEMP | Temperature | 7/20/2022 10:24 | 22.29 | C |
| GS-AP-MW-12V | TURB | Turbidity | 7/20/2022 10:24 | 6.27 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:03 | 251.67 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:03 | 2.13 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:03 | 103.42 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potention | 7/20/2022 12:03 | -89.18 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:03 | 6.66 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:03 | 22.47 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:03 | 15.8 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:08 | 321.07 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:08 | 0.86 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:08 | 104.02 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potention | 7/20/2022 12:08 | -102.1 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:08 | 6.62 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:08 | 22.1 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:08 | 12.6 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:13 | 457.62 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:13 | 0.65 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:13 | 104.86 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potention | 7/20/2022 12:13 | -93.28 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:13 | 6.6 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:13 | 21.95 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:13 | 6.84 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:18 | 467.53 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:18 | 0.58 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:18 | 105.52 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potention | 7/20/2022 12:18 | -90.04 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:18 | 6.59 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:18 | 21.57 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:18 | 7.19 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:23 | 453.4 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:23 | 0.55 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:23 | 106.16 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potention | 7/20/2022 12:23 | -91.71 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:23 | 6.58 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:23 | 21.66 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:23 | 5.49 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:28 | 445.96 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:28 | 0.54 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:28 | 106.8 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potention | 7/20/2022 12:28 | -96.76 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:28 | 6.57 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:28 | 21.47 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:28 | 5.1 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:33 | 442.24 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:33 | 0.54 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:33 | 107.22 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-13R | ORP | Oxidation Reduction Potential | 7/20/2022 12:33 | -100.22 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:33 | 6.56 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:33 | 21.76 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:33 | 8.02 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:38 | 433.42 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:38 | 0.55 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:38 | 107.76 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potential | 7/20/2022 12:38 | -101.62 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:38 | 6.54 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:38 | 21.55 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:38 | 7.54 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:43 | 394.52 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:43 | 0.55 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:43 | 108.12 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potential | 7/20/2022 12:43 | -103.9 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:43 | 6.53 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:43 | 21.61 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:43 | 6.22 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:48 | 388.88 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:48 | 0.57 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:48 | 108.56 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potential | 7/20/2022 12:48 | -104.24 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:48 | 6.51 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:48 | 21.58 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:48 | 5.16 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:53 | 385.37 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:53 | 0.59 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:53 | 108.88 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potential | 7/20/2022 12:53 | -103.28 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:53 | 6.48 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:53 | 21.84 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:53 | 5.11 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 12:58 | 384.15 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 12:58 | 0.59 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 12:58 | 109.16 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potential | 7/20/2022 12:58 | -102.79 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 12:58 | 6.46 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 12:58 | 21.75 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 12:58 | 7.23 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 13:03 | 385.29 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 13:03 | 0.59 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 13:03 | 109.45 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potential | 7/20/2022 13:03 | -102.16 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 13:03 | 6.44 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 13:03 | 21.89 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 13:03 | 8.32 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 13:08 | 385.43 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 13:08 | 0.62 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 13:08 | 109.62 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potention | 7/20/2022 13:08 | -100.95 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 13:08 | 6.4 | SU |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 13:08 | 22.34 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 13:08 | 6.5 | NTU |
| GS-AP-MW-13R | COND | Conductivity | 7/20/2022 13:13 | 388.36 | uS/cm |
| GS-AP-MW-13R | DO | DO | 7/20/2022 13:13 | 0.64 | mg/L |
| GS-AP-MW-13R | DTW | Depth to Water Detail | 7/20/2022 13:13 | 109.72 | ft |
| GS-AP-MW-13R | ORP | Oxidation Reduction Potention | 7/20/2022 13:13 | -101.54 | mv |
| GS-AP-MW-13R | PH | pH | 7/20/2022 13:13 | 6.39 | SU |
| GS-AP-MW-13R | SULFIDE | Sulfide | 7/20/2022 13:13 | 0 | mg/L |
| GS-AP-MW-13R | TEMP | Temperature | 7/20/2022 13:13 | 22.29 | C |
| GS-AP-MW-13R | TURB | Turbidity | 7/20/2022 13:13 | 4.36 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 10:43 | 476.86 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 10:43 | 0.7 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 10:43 | 251.4 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 10:43 | -195.68 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 10:43 | 8.14 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 10:43 | 20.73 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 10:43 | 5.02 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 10:48 | 439.61 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 10:48 | 0.53 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 10:48 | 252 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 10:48 | -172.65 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 10:48 | 8.26 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 10:48 | 20.72 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 10:48 | 3.96 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 10:53 | 430.34 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 10:53 | 0.48 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 10:53 | 252.75 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 10:53 | -165.42 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 10:53 | 8.26 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 10:53 | 20.57 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 10:53 | 3.71 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 10:58 | 400.14 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 10:58 | 0.42 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 10:58 | 254 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 10:58 | -169.14 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 10:58 | 8.33 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 10:58 | 20.82 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 10:58 | 3.76 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:03 | 381.84 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:03 | 0.39 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:03 | 254.7 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 11:03 | -171.4 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:03 | 8.34 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:03 | 20.73 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:03 | 4.28 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:08 | 369.8 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:08 | 0.39 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:08 | 255.5 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 11:08 | -172.82 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:08 | 8.33 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:08 | 20.67 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:08 | 3.84 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:13 | 361.17 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:13 | 0.35 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:13 | 256.2 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36H | ORP | Oxidation Reduction Potential | 7/20/2022 11:13 | -176.81 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:13 | 8.36 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:13 | 20.98 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:13 | 3.63 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:18 | 350.88 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:18 | 0.35 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:18 | 256.8 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potential | 7/20/2022 11:18 | -177.38 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:18 | 8.36 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:18 | 20.94 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:18 | 3.83 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:23 | 415.9 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:23 | 0.36 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:23 | 257.35 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potential | 7/20/2022 11:23 | -175.4 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:23 | 8.34 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:23 | 20.52 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:23 | 3.78 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:28 | 409.18 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:28 | 0.36 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:28 | 257.82 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potential | 7/20/2022 11:28 | -172.82 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:28 | 8.22 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:28 | 20.95 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:28 | 3.79 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:33 | 389.61 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:33 | 0.35 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:33 | 258.18 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potential | 7/20/2022 11:33 | -179.78 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:33 | 8.35 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:33 | 21.03 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:33 | 3.58 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:38 | 382.17 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:38 | 0.36 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:38 | 258.45 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potential | 7/20/2022 11:38 | -179.37 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:38 | 8.36 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:38 | 21.16 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:38 | 3.84 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:43 | 381.64 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:43 | 0.46 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:43 | 258.5 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potential | 7/20/2022 11:43 | -174.18 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:43 | 8.3 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:43 | 22.33 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:43 | 4.7 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:48 | 365.17 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:48 | 0.68 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:48 | 257.8 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 11:48 | -161.66 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:48 | 8.4 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:48 | 25.19 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:48 | 3.97 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:53 | 357.19 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:53 | 0.39 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:53 | 258.15 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 11:53 | -172.32 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:53 | 8.33 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:53 | 21.87 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:53 | 5.12 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 11:58 | 346.51 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 11:58 | 0.36 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 11:58 | 258.44 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 11:58 | -175.43 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 11:58 | 8.28 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 11:58 | 21.41 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 11:58 | 3.77 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 12:03 | 339.27 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 12:03 | 0.35 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 12:03 | 258.75 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 12:03 | -181.64 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 12:03 | 8.32 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 12:03 | 22.01 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 12:03 | 3.92 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 12:08 | 331.19 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 12:08 | 0.34 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 12:08 | 259 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 12:08 | -182.77 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 12:08 | 8.3 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 12:08 | 22.05 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 12:08 | 4.21 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 12:13 | 392.5 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 12:13 | 0.34 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 12:13 | 259.2 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 12:13 | -181.6 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 12:13 | 8.25 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 12:13 | 21.76 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 12:13 | 4.2 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 12:18 | 376.94 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 12:18 | 0.34 | mg/L |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 12:18 | 259.41 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 12:18 | -182.6 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 12:18 | 8.26 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 12:18 | 22.7 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 12:18 | 4.72 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 12:23 | 372.53 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 12:23 | 0.34 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 12:23 | 259.58 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 12:23 | -182.78 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 12:23 | 8.23 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 12:23 | 22.17 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 12:23 | 4.01 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 12:28 | 365.96 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 12:28 | 0.34 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 12:28 | 259.77 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 12:28 | -182.29 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 12:28 | 8.18 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 12:28 | 22.03 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 12:28 | 3.91 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 12:33 | 360.5 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 12:33 | 0.33 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 12:33 | 259.9 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 12:33 | -182.97 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 12:33 | 8.18 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 12:33 | 22.82 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 12:33 | 4.1 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 12:38 | 348.08 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 12:38 | 0.32 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 12:38 | 260 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 12:38 | -183.88 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 12:38 | 8.16 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 12:38 | 22.31 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 12:38 | 4.05 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 12:43 | 335.47 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 12:43 | 0.37 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 12:43 | 260.09 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 12:43 | -182.62 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 12:43 | 8.13 | SU |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 12:43 | 22.57 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 12:43 | 4.05 | NTU |
| GS-AP-MW-36H | COND | Conductivity | 7/20/2022 12:48 | 332.02 | uS/cm |
| GS-AP-MW-36H | DO | DO | 7/20/2022 12:48 | 0.33 | mg/L |
| GS-AP-MW-36H | DTW | Depth to Water Detail | 7/20/2022 12:48 | 260.19 | ft |
| GS-AP-MW-36H | ORP | Oxidation Reduction Potention | 7/20/2022 12:48 | -179.39 | mv |
| GS-AP-MW-36H | PH | pH | 7/20/2022 12:48 | 8.05 | SU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|--------------------|--------------------|------------------------|--------------|-------------|
| GS-AP-MW-36H | SULFIDE | Sulfide | 7/20/2022 12:48 | 0 | mg/L |
| GS-AP-MW-36H | TEMP | Temperature | 7/20/2022 12:48 | 22.98 | C |
| GS-AP-MW-36H | TURB | Turbidity | 7/20/2022 12:48 | 4.2 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-32H | COND | Conductivity | 7/27/2022 11:58 | 652.85 | uS/cm |
| GS-AP-MW-32H | DO | DO | 7/27/2022 11:58 | 1.47 | mg/L |
| GS-AP-MW-32H | DTW | Depth to Water Detail | 7/27/2022 11:58 | 275.7 | ft |
| GS-AP-MW-32H | ORP | Oxidation Reduction Potention | 7/27/2022 11:58 | -128.73 | mv |
| GS-AP-MW-32H | PH | pH | 7/27/2022 11:58 | 7.84 | SU |
| GS-AP-MW-32H | TEMP | Temperature | 7/27/2022 11:58 | 26.52 | C |
| GS-AP-MW-32H | TURB | Turbidity | 7/27/2022 11:58 | 4.12 | NTU |
| GS-AP-MW-32H | COND | Conductivity | 7/27/2022 12:18 | 657.72 | uS/cm |
| GS-AP-MW-32H | DO | DO | 7/27/2022 12:18 | 1.33 | mg/L |
| GS-AP-MW-32H | DTW | Depth to Water Detail | 7/27/2022 12:18 | 277.18 | ft |
| GS-AP-MW-32H | ORP | Oxidation Reduction Potention | 7/27/2022 12:18 | -135.91 | mv |
| GS-AP-MW-32H | PH | pH | 7/27/2022 12:18 | 7.89 | SU |
| GS-AP-MW-32H | TEMP | Temperature | 7/27/2022 12:18 | 26.7 | C |
| GS-AP-MW-32H | TURB | Turbidity | 7/27/2022 12:18 | 3.96 | NTU |
| GS-AP-MW-32H | COND | Conductivity | 7/27/2022 12:39 | 634.69 | uS/cm |
| GS-AP-MW-32H | DO | DO | 7/27/2022 12:39 | 1.28 | mg/L |
| GS-AP-MW-32H | DTW | Depth to Water Detail | 7/27/2022 12:39 | 278.2 | ft |
| GS-AP-MW-32H | ORP | Oxidation Reduction Potention | 7/27/2022 12:39 | -126.27 | mv |
| GS-AP-MW-32H | PH | pH | 7/27/2022 12:39 | 7.88 | SU |
| GS-AP-MW-32H | SULFIDE | Sulfide | 7/27/2022 12:39 | 0 | mg/L |
| GS-AP-MW-32H | TEMP | Temperature | 7/27/2022 12:39 | 27.36 | C |
| GS-AP-MW-32H | TURB | Turbidity | 7/27/2022 12:39 | 4.12 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 9:47 | 556.99 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 9:47 | 0.74 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 9:47 | 11.08 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 9:47 | -170.76 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 9:47 | 7.14 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 9:47 | 20.06 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 9:47 | 2.44 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 9:52 | 557.13 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 9:52 | 0.6 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 9:52 | 11.12 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 9:52 | -164.19 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 9:52 | 7.11 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 9:52 | 19.93 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 9:52 | 2.35 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 9:57 | 557.1 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 9:57 | 0.55 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 9:57 | 11.16 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 9:57 | -159.97 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 9:57 | 7.1 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 9:57 | 19.89 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 9:57 | 5.74 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:02 | 556.34 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:02 | 0.53 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:02 | 11.18 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:02 | -156.56 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:02 | 7.09 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:02 | 19.78 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:02 | 11.09 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:07 | 556.22 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:07 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:07 | 11.21 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:07 | -154.39 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:07 | 7.08 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:07 | 19.82 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:07 | 9.16 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:12 | 555.37 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:12 | 0.5 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:12 | 11.23 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:12 | -152.28 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:12 | 7.08 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:12 | 19.74 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:12 | 9.32 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:17 | 555.09 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:17 | 0.5 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:17 | 11.27 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | ORP | Oxidation Reduction Potential | 7/25/2022 10:17 | -150.94 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:17 | 7.08 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:17 | 19.91 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:17 | 10.49 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:22 | 554.9 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:22 | 0.5 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:22 | 11.29 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potential | 7/25/2022 10:22 | -150.05 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:22 | 7.09 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:22 | 19.88 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:22 | 10.21 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:27 | 553.87 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:27 | 0.5 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:27 | 11.32 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potential | 7/25/2022 10:27 | -150.2 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:27 | 7.11 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:27 | 19.91 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:27 | 10.75 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:32 | 553.72 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:32 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:32 | 11.32 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potential | 7/25/2022 10:32 | -150.48 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:32 | 7.13 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:32 | 19.91 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:32 | 10.88 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:37 | 554.43 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:37 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:37 | 11.34 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potential | 7/25/2022 10:37 | -151.54 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:37 | 7.16 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:37 | 19.87 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:37 | 10.92 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:42 | 553.25 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:42 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:42 | 11.35 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potential | 7/25/2022 10:42 | -152.55 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:42 | 7.19 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:42 | 19.82 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:42 | 11.74 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:47 | 553.04 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:47 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:47 | 11.36 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potential | 7/25/2022 10:47 | -154.16 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:47 | 7.23 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:47 | 19.97 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:47 | 12.8 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:52 | 552.07 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:52 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:52 | 11.36 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:52 | -156.8 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:52 | 7.28 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:52 | 20.07 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:52 | 11.41 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:57 | 551.34 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:57 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:57 | 11.37 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:57 | -159.09 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:57 | 7.33 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:57 | 19.94 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:57 | 11.88 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:02 | 551.81 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:02 | 0.5 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:02 | 11.37 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:02 | -161.38 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:02 | 7.39 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:02 | 19.95 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:02 | 12.14 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:07 | 550.92 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:07 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:07 | 11.39 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:07 | -163.86 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:07 | 7.44 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:07 | 19.98 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:07 | 11.2 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:12 | 552.47 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:12 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:12 | 11.4 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:12 | -166.12 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:12 | 7.48 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:12 | 20.02 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:12 | 10.66 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:17 | 549.9 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:17 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:17 | 11.42 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:17 | -168.08 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:17 | 7.52 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:17 | 19.83 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:17 | 11.24 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:22 | 550.92 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:22 | 0.51 | mg/L |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:22 | 11.44 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:22 | -169.8 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:22 | 7.55 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:22 | 20.01 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:22 | 10.27 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:27 | 550.15 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:27 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:27 | 11.45 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:27 | -171.09 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:27 | 7.57 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:27 | 19.96 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:27 | 11.2 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:32 | 550.95 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:32 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:32 | 11.46 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:32 | -172.27 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:32 | 7.6 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:32 | 19.81 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:32 | 10.18 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:37 | 549.8 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:37 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:37 | 11.46 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:37 | -173.59 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:37 | 7.63 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:37 | 19.88 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:37 | 11.61 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:42 | 550.26 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:42 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:42 | 11.47 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:42 | -173.65 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:42 | 7.63 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:42 | 20.03 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:42 | 10.23 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:47 | 549.15 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:47 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:47 | 11.48 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:47 | -173.87 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:47 | 7.64 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:47 | 20.03 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:47 | 12.96 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:52 | 549.68 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:52 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:52 | 11.49 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:52 | -173.81 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:52 | 7.64 | SU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:52 | 19.88 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:52 | 10.31 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:57 | 549.38 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:57 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:57 | 11.51 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:57 | -173.55 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:57 | 7.64 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:57 | 19.73 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:57 | 10.55 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 12:02 | 549.15 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 12:02 | 0.53 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 12:02 | 11.52 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 12:02 | -173.08 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 12:02 | 7.64 | SU |
| GS-AP-MW-7 | SULFIDE | Sulfide | 7/25/2022 12:02 | 0 | mg/L |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 12:02 | 19.92 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 12:02 | 10.17 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|----------|-------|
| GS-AP-MW-27HR | COND | Conductivity | 7/27/2022 10:39 | 7770.93 | uS/cm |
| GS-AP-MW-27HR | DO | DO | 7/27/2022 10:39 | 0.23 | mg/L |
| GS-AP-MW-27HR | DTW | Depth to Water Detail | 7/27/2022 10:39 | 168.31 | ft |
| GS-AP-MW-27HR | ORP | Oxidation Reduction Potention | 7/27/2022 10:39 | -180.94 | mv |
| GS-AP-MW-27HR | PH | pH | 7/27/2022 10:39 | 7.27 | SU |
| GS-AP-MW-27HR | TEMP | Temperature | 7/27/2022 10:39 | 18.53 | C |
| GS-AP-MW-27HR | TURB | Turbidity | 7/27/2022 10:39 | 6.21 | NTU |
| GS-AP-MW-27HR | COND | Conductivity | 7/27/2022 10:44 | 10343.69 | uS/cm |
| GS-AP-MW-27HR | DO | DO | 7/27/2022 10:44 | 0.16 | mg/L |
| GS-AP-MW-27HR | DTW | Depth to Water Detail | 7/27/2022 10:44 | 170.71 | ft |
| GS-AP-MW-27HR | ORP | Oxidation Reduction Potention | 7/27/2022 10:44 | -193.5 | mv |
| GS-AP-MW-27HR | PH | pH | 7/27/2022 10:44 | 7.18 | SU |
| GS-AP-MW-27HR | TEMP | Temperature | 7/27/2022 10:44 | 18.21 | C |
| GS-AP-MW-27HR | TURB | Turbidity | 7/27/2022 10:44 | 8.91 | NTU |
| GS-AP-MW-27HR | COND | Conductivity | 7/27/2022 10:49 | 9691.97 | uS/cm |
| GS-AP-MW-27HR | DO | DO | 7/27/2022 10:49 | 0.13 | mg/L |
| GS-AP-MW-27HR | DTW | Depth to Water Detail | 7/27/2022 10:49 | 173.12 | ft |
| GS-AP-MW-27HR | ORP | Oxidation Reduction Potention | 7/27/2022 10:49 | -203.2 | mv |
| GS-AP-MW-27HR | PH | pH | 7/27/2022 10:49 | 7.22 | SU |
| GS-AP-MW-27HR | TEMP | Temperature | 7/27/2022 10:49 | 18.38 | C |
| GS-AP-MW-27HR | TURB | Turbidity | 7/27/2022 10:49 | 6.68 | NTU |
| GS-AP-MW-27HR | COND | Conductivity | 7/27/2022 10:54 | 5321.1 | uS/cm |
| GS-AP-MW-27HR | DO | DO | 7/27/2022 10:54 | 0.16 | mg/L |
| GS-AP-MW-27HR | DTW | Depth to Water Detail | 7/27/2022 10:54 | 174.95 | ft |
| GS-AP-MW-27HR | ORP | Oxidation Reduction Potention | 7/27/2022 10:54 | -204.94 | mv |
| GS-AP-MW-27HR | PH | pH | 7/27/2022 10:54 | 7.45 | SU |
| GS-AP-MW-27HR | TEMP | Temperature | 7/27/2022 10:54 | 18.27 | C |
| GS-AP-MW-27HR | TURB | Turbidity | 7/27/2022 10:54 | 5.42 | NTU |
| GS-AP-MW-27HR | COND | Conductivity | 7/27/2022 10:59 | 4780.46 | uS/cm |
| GS-AP-MW-27HR | DO | DO | 7/27/2022 10:59 | 0.15 | mg/L |
| GS-AP-MW-27HR | DTW | Depth to Water Detail | 7/27/2022 10:59 | 177.12 | ft |
| GS-AP-MW-27HR | ORP | Oxidation Reduction Potention | 7/27/2022 10:59 | -207.81 | mv |
| GS-AP-MW-27HR | PH | pH | 7/27/2022 10:59 | 7.51 | SU |
| GS-AP-MW-27HR | TEMP | Temperature | 7/27/2022 10:59 | 18.36 | C |
| GS-AP-MW-27HR | TURB | Turbidity | 7/27/2022 10:59 | 3.76 | NTU |
| GS-AP-MW-27HR | COND | Conductivity | 7/27/2022 11:04 | 4982.13 | uS/cm |
| GS-AP-MW-27HR | DO | DO | 7/27/2022 11:04 | 0.15 | mg/L |
| GS-AP-MW-27HR | DTW | Depth to Water Detail | 7/27/2022 11:04 | 179.13 | ft |
| GS-AP-MW-27HR | ORP | Oxidation Reduction Potention | 7/27/2022 11:04 | -205.95 | mv |
| GS-AP-MW-27HR | PH | pH | 7/27/2022 11:04 | 7.47 | SU |
| GS-AP-MW-27HR | TEMP | Temperature | 7/27/2022 11:04 | 18.23 | C |
| GS-AP-MW-27HR | TURB | Turbidity | 7/27/2022 11:04 | 3.54 | NTU |
| GS-AP-MW-27HR | COND | Conductivity | 7/27/2022 11:09 | 5106.92 | uS/cm |
| GS-AP-MW-27HR | DO | DO | 7/27/2022 11:09 | 0.13 | mg/L |
| GS-AP-MW-27HR | DTW | Depth to Water Detail | 7/27/2022 11:09 | 181.12 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-27HR | ORP | Oxidation Reduction Potention | 7/27/2022 11:09 | -207.64 | mv |
| GS-AP-MW-27HR | PH | pH | 7/27/2022 11:09 | 7.45 | SU |
| GS-AP-MW-27HR | TEMP | Temperature | 7/27/2022 11:09 | 18.43 | C |
| GS-AP-MW-27HR | TURB | Turbidity | 7/27/2022 11:09 | 3.5 | NTU |
| GS-AP-MW-27HR | COND | Conductivity | 7/27/2022 11:14 | 5166.09 | uS/cm |
| GS-AP-MW-27HR | DO | DO | 7/27/2022 11:14 | 0.28 | mg/L |
| GS-AP-MW-27HR | DTW | Depth to Water Detail | 7/27/2022 11:14 | 181.92 | ft |
| GS-AP-MW-27HR | ORP | Oxidation Reduction Potention | 7/27/2022 11:14 | -207.59 | mv |
| GS-AP-MW-27HR | PH | pH | 7/27/2022 11:14 | 7.43 | SU |
| GS-AP-MW-27HR | TEMP | Temperature | 7/27/2022 11:14 | 20.01 | C |
| GS-AP-MW-27HR | TURB | Turbidity | 7/27/2022 11:14 | 1.49 | NTU |
| GS-AP-MW-27HR | COND | Conductivity | 7/27/2022 11:19 | 5270.23 | uS/cm |
| GS-AP-MW-27HR | DO | DO | 7/27/2022 11:19 | 0.36 | mg/L |
| GS-AP-MW-27HR | DTW | Depth to Water Detail | 7/27/2022 11:19 | 181.72 | ft |
| GS-AP-MW-27HR | ORP | Oxidation Reduction Potention | 7/27/2022 11:19 | -209.23 | mv |
| GS-AP-MW-27HR | PH | pH | 7/27/2022 11:19 | 7.44 | SU |
| GS-AP-MW-27HR | TEMP | Temperature | 7/27/2022 11:19 | 20.7 | C |
| GS-AP-MW-27HR | TURB | Turbidity | 7/27/2022 11:19 | 1.43 | NTU |
| GS-AP-MW-27HR | COND | Conductivity | 7/27/2022 11:24 | 5265.7 | uS/cm |
| GS-AP-MW-27HR | DO | DO | 7/27/2022 11:24 | 0.37 | mg/L |
| GS-AP-MW-27HR | DTW | Depth to Water Detail | 7/27/2022 11:24 | 181.44 | ft |
| GS-AP-MW-27HR | ORP | Oxidation Reduction Potention | 7/27/2022 11:24 | -208.95 | mv |
| GS-AP-MW-27HR | PH | pH | 7/27/2022 11:24 | 7.44 | SU |
| GS-AP-MW-27HR | SULFIDE | Sulfide | 7/27/2022 11:24 | 4 | mg/L |
| GS-AP-MW-27HR | TEMP | Temperature | 7/27/2022 11:24 | 21.11 | C |
| GS-AP-MW-27HR | TURB | Turbidity | 7/27/2022 11:24 | 1.27 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-28H | COND | Conductivity | 7/27/2022 12:35 | 1706.27 | uS/cm |
| GS-AP-MW-28H | DO | DO | 7/27/2022 12:35 | 0.46 | mg/L |
| GS-AP-MW-28H | DTW | Depth to Water Detail | 7/27/2022 12:35 | 164.68 | ft |
| GS-AP-MW-28H | ORP | Oxidation Reduction Potention | 7/27/2022 12:35 | -201.58 | mv |
| GS-AP-MW-28H | PH | pH | 7/27/2022 12:35 | 8.23 | SU |
| GS-AP-MW-28H | TEMP | Temperature | 7/27/2022 12:35 | 18.74 | C |
| GS-AP-MW-28H | TURB | Turbidity | 7/27/2022 12:35 | 1.16 | NTU |
| GS-AP-MW-28H | COND | Conductivity | 7/27/2022 12:40 | 1648.06 | uS/cm |
| GS-AP-MW-28H | DO | DO | 7/27/2022 12:40 | 0.37 | mg/L |
| GS-AP-MW-28H | DTW | Depth to Water Detail | 7/27/2022 12:40 | 164.68 | ft |
| GS-AP-MW-28H | ORP | Oxidation Reduction Potention | 7/27/2022 12:40 | -203.96 | mv |
| GS-AP-MW-28H | PH | pH | 7/27/2022 12:40 | 8.39 | SU |
| GS-AP-MW-28H | TEMP | Temperature | 7/27/2022 12:40 | 18.81 | C |
| GS-AP-MW-28H | TURB | Turbidity | 7/27/2022 12:40 | 0.91 | NTU |
| GS-AP-MW-28H | COND | Conductivity | 7/27/2022 12:45 | 1557.7 | uS/cm |
| GS-AP-MW-28H | DO | DO | 7/27/2022 12:45 | 0.34 | mg/L |
| GS-AP-MW-28H | DTW | Depth to Water Detail | 7/27/2022 12:45 | 164.68 | ft |
| GS-AP-MW-28H | ORP | Oxidation Reduction Potention | 7/27/2022 12:45 | -201.38 | mv |
| GS-AP-MW-28H | PH | pH | 7/27/2022 12:45 | 8.41 | SU |
| GS-AP-MW-28H | TEMP | Temperature | 7/27/2022 12:45 | 18.78 | C |
| GS-AP-MW-28H | TURB | Turbidity | 7/27/2022 12:45 | 1.03 | NTU |
| GS-AP-MW-28H | COND | Conductivity | 7/27/2022 12:50 | 1405.9 | uS/cm |
| GS-AP-MW-28H | DO | DO | 7/27/2022 12:50 | 0.3 | mg/L |
| GS-AP-MW-28H | DTW | Depth to Water Detail | 7/27/2022 12:50 | 164.68 | ft |
| GS-AP-MW-28H | ORP | Oxidation Reduction Potention | 7/27/2022 12:50 | -200 | mv |
| GS-AP-MW-28H | PH | pH | 7/27/2022 12:50 | 8.41 | SU |
| GS-AP-MW-28H | TEMP | Temperature | 7/27/2022 12:50 | 18.75 | C |
| GS-AP-MW-28H | TURB | Turbidity | 7/27/2022 12:50 | 1.45 | NTU |
| GS-AP-MW-28H | COND | Conductivity | 7/27/2022 12:55 | 1371.21 | uS/cm |
| GS-AP-MW-28H | DO | DO | 7/27/2022 12:55 | 0.29 | mg/L |
| GS-AP-MW-28H | DTW | Depth to Water Detail | 7/27/2022 12:55 | 164.68 | ft |
| GS-AP-MW-28H | ORP | Oxidation Reduction Potention | 7/27/2022 12:55 | -203.29 | mv |
| GS-AP-MW-28H | PH | pH | 7/27/2022 12:55 | 8.43 | SU |
| GS-AP-MW-28H | TEMP | Temperature | 7/27/2022 12:55 | 18.36 | C |
| GS-AP-MW-28H | TURB | Turbidity | 7/27/2022 12:55 | 1.4 | NTU |
| GS-AP-MW-28H | COND | Conductivity | 7/27/2022 13:00 | 1349.92 | uS/cm |
| GS-AP-MW-28H | DO | DO | 7/27/2022 13:00 | 0.27 | mg/L |
| GS-AP-MW-28H | DTW | Depth to Water Detail | 7/27/2022 13:00 | 164.68 | ft |
| GS-AP-MW-28H | ORP | Oxidation Reduction Potention | 7/27/2022 13:00 | -204.14 | mv |
| GS-AP-MW-28H | PH | pH | 7/27/2022 13:00 | 8.43 | SU |
| GS-AP-MW-28H | SULFIDE | Sulfide | 7/27/2022 13:00 | 0 | mg/L |
| GS-AP-MW-28H | TEMP | Temperature | 7/27/2022 13:00 | 18.61 | C |
| GS-AP-MW-28H | TURB | Turbidity | 7/27/2022 13:00 | 1.33 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 8:44 | 4785.49 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 8:44 | 0.31 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 8:44 | 282.78 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 8:44 | -111.52 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 8:44 | 7.2 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 8:44 | 18.3 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 8:44 | 1.52 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 8:49 | 4991.92 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 8:49 | 0.47 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 8:49 | 284.12 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 8:49 | -103.53 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 8:49 | 7.2 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 8:49 | 19.68 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 8:49 | 1.6 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 8:54 | 4997.36 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 8:54 | 0.68 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 8:54 | 285.14 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 8:54 | -96.56 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 8:54 | 7.2 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 8:54 | 20.68 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 8:54 | 1.5 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 8:59 | 5046.51 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 8:59 | 0.43 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 8:59 | 286.8 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 8:59 | -92.71 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 8:59 | 7.19 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 8:59 | 19.52 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 8:59 | 1.36 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 9:04 | 5053.87 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 9:04 | 0.38 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 9:04 | 287.91 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 9:04 | -102.67 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 9:04 | 7.18 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 9:04 | 19.58 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 9:04 | 1.92 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 9:09 | 4980.66 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 9:09 | 0.32 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 9:09 | 290.21 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 9:09 | -130.01 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 9:09 | 7.17 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 9:09 | 19.51 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 9:09 | 1.04 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 9:14 | 4965.03 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 9:14 | 0.31 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 9:14 | 294.12 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 9:14 | -142.06 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 9:14 | 7.16 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 9:14 | 19.48 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 9:14 | 0.89 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 9:19 | 4896 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 9:19 | 0.22 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 9:19 | 296.75 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 9:19 | -151.04 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 9:19 | 7.16 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 9:19 | 19.06 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 9:19 | 0.94 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 9:24 | 4757.45 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 9:24 | 0.2 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 9:24 | 298.69 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 9:24 | -161.16 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 9:24 | 7.14 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 9:24 | 18.99 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 9:24 | 1.11 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 9:29 | 4695.9 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 9:29 | 0.2 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 9:29 | 300.48 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 9:29 | -165.35 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 9:29 | 7.13 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 9:29 | 18.8 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 9:29 | 0.98 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 9:34 | 4703.84 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 9:34 | 0.33 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 9:34 | 299.87 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 9:34 | -168.67 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 9:34 | 7.13 | SU |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 9:34 | 20.59 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 9:34 | 1.12 | NTU |
| GS-AP-MW-36V | COND | Conductivity | 7/27/2022 9:39 | 4647.65 | uS/cm |
| GS-AP-MW-36V | DO | DO | 7/27/2022 9:39 | 0.34 | mg/L |
| GS-AP-MW-36V | DTW | Depth to Water Detail | 7/27/2022 9:39 | 299.24 | ft |
| GS-AP-MW-36V | ORP | Oxidation Reduction Potention | 7/27/2022 9:39 | -174.04 | mv |
| GS-AP-MW-36V | PH | pH | 7/27/2022 9:39 | 7.14 | SU |
| GS-AP-MW-36V | SULFIDE | Sulfide | 7/27/2022 9:39 | 2 | mg/L |
| GS-AP-MW-36V | TEMP | Temperature | 7/27/2022 9:39 | 20.56 | C |
| GS-AP-MW-36V | TURB | Turbidity | 7/27/2022 9:39 | 1.06 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 11:45 | 1251.27 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 11:45 | 0.41 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 11:45 | 149.28 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 11:45 | -153.41 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 11:45 | 7.78 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 11:45 | 18.55 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 11:45 | 5.35 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 11:50 | 1312.74 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 11:50 | 0.26 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 11:50 | 154.21 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 11:50 | -129.4 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 11:50 | 7.79 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 11:50 | 18.5 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 11:50 | 1.95 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 11:55 | 1300.07 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 11:55 | 0.23 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 11:55 | 157.63 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 11:55 | -129.84 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 11:55 | 7.76 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 11:55 | 18.64 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 11:55 | 1.85 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:00 | 1292.84 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:00 | 0.2 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:00 | 159.39 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 12:00 | -139.61 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:00 | 7.74 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:00 | 18.64 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:00 | 1.83 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:05 | 1285.32 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:05 | 0.18 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:05 | 162.68 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 12:05 | -162.51 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:05 | 7.73 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:05 | 18.56 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:05 | 1.96 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:10 | 1285.08 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:10 | 0.3 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:10 | 163.82 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 12:10 | -174.26 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:10 | 7.76 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:10 | 20.32 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:10 | 2.01 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:15 | 1277.78 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:15 | 0.36 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:15 | 163.98 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potential | 7/26/2022 12:15 | -177.75 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:15 | 7.76 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:15 | 20.58 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:15 | 1.9 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:20 | 1248.34 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:20 | 0.36 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:20 | 164.28 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potential | 7/26/2022 12:20 | -185.45 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:20 | 7.75 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:20 | 20.67 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:20 | 1.89 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:25 | 1197.58 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:25 | 0.34 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:25 | 164.55 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potential | 7/26/2022 12:25 | -198.07 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:25 | 7.77 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:25 | 21.03 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:25 | 2.18 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:30 | 1126.69 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:30 | 0.34 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:30 | 164.84 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potential | 7/26/2022 12:30 | -204.34 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:30 | 7.77 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:30 | 20.96 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:30 | 2.24 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:35 | 1065.64 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:35 | 0.32 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:35 | 165.11 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potential | 7/26/2022 12:35 | -209.22 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:35 | 7.79 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:35 | 21.22 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:35 | 1.87 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:40 | 1008.99 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:40 | 0.31 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:40 | 165.38 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potential | 7/26/2022 12:40 | -210.18 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:40 | 7.8 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:40 | 20.93 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:40 | 1.94 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:45 | 969.13 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:45 | 0.31 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:45 | 165.71 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potential | 7/26/2022 12:45 | -212.13 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:45 | 7.82 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:45 | 21.04 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:45 | 1.9 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:50 | 930.77 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:50 | 0.31 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:50 | 166.02 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 12:50 | -210.62 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:50 | 7.81 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:50 | 21.03 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:50 | 1.77 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 12:55 | 900.02 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 12:55 | 0.3 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 12:55 | 166.26 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 12:55 | -211.77 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 12:55 | 7.84 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 12:55 | 20.99 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 12:55 | 1.84 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:00 | 874.91 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:00 | 0.31 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:00 | 166.55 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:00 | -208.79 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:00 | 7.82 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:00 | 20.54 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:00 | 1.91 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:05 | 853.24 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:05 | 0.29 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:05 | 166.74 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:05 | -209.33 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:05 | 7.85 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:05 | 20.74 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:05 | 1.89 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:10 | 837 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:10 | 0.31 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:10 | 166.94 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:10 | -206.21 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:10 | 7.82 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:10 | 20.44 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:10 | 1.82 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:15 | 822.48 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:15 | 0.3 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:15 | 167.12 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:15 | -206.92 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:15 | 7.86 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:15 | 20.83 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:15 | 1.8 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:20 | 781.19 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:20 | 0.3 | mg/L |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:20 | 167.3 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:20 | -202.9 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:20 | 7.81 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:20 | 21.19 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:20 | 1.56 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:25 | 787.8 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:25 | 0.3 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:25 | 167.48 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:25 | -205.36 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:25 | 7.86 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:25 | 20.98 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:25 | 1.67 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:30 | 793.94 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:30 | 0.3 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:30 | 167.66 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:30 | -199.9 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:30 | 7.79 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:30 | 21.49 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:30 | 1.84 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:35 | 779.93 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:35 | 0.3 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:35 | 167.8 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:35 | -203.18 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:35 | 7.86 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:35 | 21.08 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:35 | 2.12 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:40 | 768.22 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:40 | 0.31 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:40 | 168.98 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:40 | -201.1 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:40 | 7.84 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:40 | 21.44 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:40 | 2.02 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:45 | 738.82 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:45 | 0.32 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:45 | 169.12 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:45 | -201.81 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:45 | 7.87 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:45 | 21.3 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:45 | 2.04 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:50 | 725.29 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:50 | 0.31 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:50 | 169.22 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:50 | -201.05 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:50 | 7.88 | SU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:50 | 21.51 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:50 | 1.89 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 13:55 | 704.62 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 13:55 | 0.33 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 13:55 | 169.34 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 13:55 | -200.65 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 13:55 | 7.88 | SU |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 13:55 | 21.45 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 13:55 | 1.94 | NTU |
| GS-AP-MW-37HR | COND | Conductivity | 7/26/2022 14:00 | 697.43 | uS/cm |
| GS-AP-MW-37HR | DO | DO | 7/26/2022 14:00 | 0.32 | mg/L |
| GS-AP-MW-37HR | DTW | Depth to Water Detail | 7/26/2022 14:00 | 169.48 | ft |
| GS-AP-MW-37HR | ORP | Oxidation Reduction Potention | 7/26/2022 14:00 | -200.78 | mv |
| GS-AP-MW-37HR | PH | pH | 7/26/2022 14:00 | 7.88 | SU |
| GS-AP-MW-37HR | SULFIDE | Sulfide | 7/26/2022 14:00 | 0 | mg/L |
| GS-AP-MW-37HR | TEMP | Temperature | 7/26/2022 14:00 | 21.9 | C |
| GS-AP-MW-37HR | TURB | Turbidity | 7/26/2022 14:00 | 1.88 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 14:53 | 1319.39 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 14:53 | 0.44 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 14:53 | 129.11 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potention | 7/26/2022 14:53 | -99.24 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 14:53 | 7.38 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 14:53 | 18.61 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 14:53 | 1 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 14:58 | 1421.44 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 14:58 | 0.3 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 14:58 | 132.03 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potention | 7/26/2022 14:58 | -95.9 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 14:58 | 7.44 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 14:58 | 18.29 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 14:58 | 0.86 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:03 | 1239.4 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:03 | 0.26 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:03 | 134.8 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potention | 7/26/2022 15:03 | -113.5 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:03 | 7.46 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:03 | 18.39 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:03 | 0.8 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:08 | 1203.19 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:08 | 0.22 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:08 | 137.74 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potention | 7/26/2022 15:08 | -121.28 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:08 | 7.46 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:08 | 18.34 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:08 | 1.22 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:13 | 1114.6 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:13 | 0.21 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:13 | 139.92 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potention | 7/26/2022 15:13 | -123.65 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:13 | 7.44 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:13 | 18.35 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:13 | 0.97 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:18 | 1103.59 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:18 | 0.54 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:18 | 139.98 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potention | 7/26/2022 15:18 | -118.16 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:18 | 7.43 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:18 | 20.98 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:18 | 1.04 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:23 | 1123.42 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:23 | 0.61 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:23 | 140.09 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-47 | ORP | Oxidation Reduction Potential | 7/26/2022 15:23 | -115.45 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:23 | 7.42 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:23 | 21.17 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:23 | 1.12 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:28 | 1116.92 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:28 | 0.64 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:28 | 140.2 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potential | 7/26/2022 15:28 | -113.55 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:28 | 7.41 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:28 | 21.21 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:28 | 2.01 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:33 | 992.25 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:33 | 0.62 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:33 | 140.27 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potential | 7/26/2022 15:33 | -121.43 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:33 | 7.41 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:33 | 21.3 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:33 | 1.16 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:38 | 876.24 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:38 | 0.62 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:38 | 140.36 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potential | 7/26/2022 15:38 | -124.96 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:38 | 7.41 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:38 | 21.09 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:38 | 1.45 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:43 | 827.75 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:43 | 0.63 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:43 | 140.41 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potential | 7/26/2022 15:43 | -124.18 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:43 | 7.41 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:43 | 21.03 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:43 | 1.38 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:48 | 796.61 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:48 | 0.62 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:48 | 140.48 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potential | 7/26/2022 15:48 | -120.8 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:48 | 7.38 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:48 | 20.77 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:48 | 1.66 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:53 | 775.03 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:53 | 0.61 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:53 | 140.55 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potential | 7/26/2022 15:53 | -117.8 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:53 | 7.35 | SU |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:53 | 20.77 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|--------------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:53 | 2.01 | NTU |
| GS-AP-MW-47 | COND | Conductivity | 7/26/2022 15:58 | 772.42 | uS/cm |
| GS-AP-MW-47 | DO | DO | 7/26/2022 15:58 | 0.62 | mg/L |
| GS-AP-MW-47 | DTW | Depth to Water Detail | 7/26/2022 15:58 | 140.59 | ft |
| GS-AP-MW-47 | ORP | Oxidation Reduction Potention | 7/26/2022 15:58 | -114.63 | mv |
| GS-AP-MW-47 | PH | pH | 7/26/2022 15:58 | 7.32 | SU |
| GS-AP-MW-47 | SULFIDE | Sulfide | 7/26/2022 15:58 | 0 | mg/L |
| GS-AP-MW-47 | TEMP | Temperature | 7/26/2022 15:58 | 20.95 | C |
| GS-AP-MW-47 | TURB | Turbidity | 7/26/2022 15:58 | 1.95 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 9:45 | 1621.44 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 9:45 | 1.71 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 9:45 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potention | 7/26/2022 9:45 | -194.7 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 9:45 | 11.4 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 9:45 | 18.9 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 9:45 | 12.5 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 9:50 | 1345.51 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 9:50 | 1.17 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 9:50 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potention | 7/26/2022 9:50 | -218.34 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 9:50 | 11.37 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 9:50 | 18.48 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 9:50 | 7.55 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 9:55 | 1137.22 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 9:55 | 0.83 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 9:55 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potention | 7/26/2022 9:55 | -230.65 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 9:55 | 11.2 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 9:55 | 18.82 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 9:55 | 5.16 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:00 | 1020.3 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:00 | 0.63 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:00 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potention | 7/26/2022 10:00 | -240.63 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:00 | 11.15 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:00 | 18.56 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:00 | 4.67 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:05 | 915.17 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:05 | 0.53 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:05 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potention | 7/26/2022 10:05 | -243.82 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:05 | 11 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:05 | 18.78 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:05 | 3.89 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:10 | 805.44 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:10 | 0.5 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:10 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potention | 7/26/2022 10:10 | -242.79 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:10 | 10.81 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:10 | 18.52 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:10 | 2.49 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:15 | 734.49 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:15 | 0.44 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:15 | 211.49 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potential | 7/26/2022 10:15 | -241.46 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:15 | 10.51 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:15 | 18.89 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:15 | 2.86 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:20 | 699.37 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:20 | 0.38 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:20 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potential | 7/26/2022 10:20 | -236.99 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:20 | 10.19 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:20 | 18.5 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:20 | 3.12 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:25 | 695.16 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:25 | 0.36 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:25 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potential | 7/26/2022 10:25 | -235.68 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:25 | 10.03 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:25 | 18.8 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:25 | 2.98 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:30 | 695.53 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:30 | 0.33 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:30 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potential | 7/26/2022 10:30 | -231.7 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:30 | 9.83 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:30 | 18.45 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:30 | 2.88 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:35 | 696.63 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:35 | 0.3 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:35 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potential | 7/26/2022 10:35 | -231.55 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:35 | 9.71 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:35 | 18.68 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:35 | 2.35 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:40 | 697.86 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:40 | 0.29 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:40 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potential | 7/26/2022 10:40 | -227.84 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:40 | 9.55 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:40 | 18.65 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:40 | 1.88 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:45 | 699.6 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:45 | 0.26 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:45 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potential | 7/26/2022 10:45 | -227.78 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:45 | 9.46 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:45 | 18.62 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:45 | 1.9 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:50 | 703.18 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:50 | 0.25 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:50 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potention | 7/26/2022 10:50 | -224.94 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:50 | 9.35 | SU |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:50 | 18.5 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:50 | 1.74 | NTU |
| GS-AP-PZ-16 | COND | Conductivity | 7/26/2022 10:55 | 706.16 | uS/cm |
| GS-AP-PZ-16 | DO | DO | 7/26/2022 10:55 | 0.24 | mg/L |
| GS-AP-PZ-16 | DTW | Depth to Water Detail | 7/26/2022 10:55 | 211.49 | ft |
| GS-AP-PZ-16 | ORP | Oxidation Reduction Potention | 7/26/2022 10:55 | -224.6 | mv |
| GS-AP-PZ-16 | PH | pH | 7/26/2022 10:55 | 9.29 | SU |
| GS-AP-PZ-16 | SULFIDE | Sulfide | 7/26/2022 10:55 | 1 | mg/L |
| GS-AP-PZ-16 | TEMP | Temperature | 7/26/2022 10:55 | 18.85 | C |
| GS-AP-PZ-16 | TURB | Turbidity | 7/26/2022 10:55 | 1.8 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-PZ-18R | COND | Conductivity | 7/27/2022 14:12 | 1120.31 | uS/cm |
| GS-AP-PZ-18R | DO | DO | 7/27/2022 14:12 | 0.46 | mg/L |
| GS-AP-PZ-18R | DTW | Depth to Water Detail | 7/27/2022 14:12 | 95.94 | ft |
| GS-AP-PZ-18R | ORP | Oxidation Reduction Potention | 7/27/2022 14:12 | -95.57 | mv |
| GS-AP-PZ-18R | PH | pH | 7/27/2022 14:12 | 7.27 | SU |
| GS-AP-PZ-18R | TEMP | Temperature | 7/27/2022 14:12 | 19.12 | C |
| GS-AP-PZ-18R | TURB | Turbidity | 7/27/2022 14:12 | 5.9 | NTU |
| GS-AP-PZ-18R | COND | Conductivity | 7/27/2022 14:17 | 1111.44 | uS/cm |
| GS-AP-PZ-18R | DO | DO | 7/27/2022 14:17 | 0.33 | mg/L |
| GS-AP-PZ-18R | DTW | Depth to Water Detail | 7/27/2022 14:17 | 95.94 | ft |
| GS-AP-PZ-18R | ORP | Oxidation Reduction Potention | 7/27/2022 14:17 | -98.82 | mv |
| GS-AP-PZ-18R | PH | pH | 7/27/2022 14:17 | 7.26 | SU |
| GS-AP-PZ-18R | TEMP | Temperature | 7/27/2022 14:17 | 18.9 | C |
| GS-AP-PZ-18R | TURB | Turbidity | 7/27/2022 14:17 | 4.22 | NTU |
| GS-AP-PZ-18R | COND | Conductivity | 7/27/2022 14:22 | 1049.01 | uS/cm |
| GS-AP-PZ-18R | DO | DO | 7/27/2022 14:22 | 0.29 | mg/L |
| GS-AP-PZ-18R | DTW | Depth to Water Detail | 7/27/2022 14:22 | 95.94 | ft |
| GS-AP-PZ-18R | ORP | Oxidation Reduction Potention | 7/27/2022 14:22 | -98.22 | mv |
| GS-AP-PZ-18R | PH | pH | 7/27/2022 14:22 | 7.24 | SU |
| GS-AP-PZ-18R | TEMP | Temperature | 7/27/2022 14:22 | 18.92 | C |
| GS-AP-PZ-18R | TURB | Turbidity | 7/27/2022 14:22 | 2.18 | NTU |
| GS-AP-PZ-18R | COND | Conductivity | 7/27/2022 14:27 | 1035.08 | uS/cm |
| GS-AP-PZ-18R | DO | DO | 7/27/2022 14:27 | 0.26 | mg/L |
| GS-AP-PZ-18R | DTW | Depth to Water Detail | 7/27/2022 14:27 | 95.94 | ft |
| GS-AP-PZ-18R | ORP | Oxidation Reduction Potention | 7/27/2022 14:27 | -98.75 | mv |
| GS-AP-PZ-18R | PH | pH | 7/27/2022 14:27 | 7.23 | SU |
| GS-AP-PZ-18R | TEMP | Temperature | 7/27/2022 14:27 | 18.59 | C |
| GS-AP-PZ-18R | TURB | Turbidity | 7/27/2022 14:27 | 0.96 | NTU |
| GS-AP-PZ-18R | COND | Conductivity | 7/27/2022 14:32 | 1024.62 | uS/cm |
| GS-AP-PZ-18R | DO | DO | 7/27/2022 14:32 | 0.23 | mg/L |
| GS-AP-PZ-18R | DTW | Depth to Water Detail | 7/27/2022 14:32 | 95.94 | ft |
| GS-AP-PZ-18R | ORP | Oxidation Reduction Potention | 7/27/2022 14:32 | -95.68 | mv |
| GS-AP-PZ-18R | PH | pH | 7/27/2022 14:32 | 7.18 | SU |
| GS-AP-PZ-18R | SULFIDE | Sulfide | 7/27/2022 14:32 | 0 | mg/L |
| GS-AP-PZ-18R | TEMP | Temperature | 7/27/2022 14:32 | 18.65 | C |
| GS-AP-PZ-18R | TURB | Turbidity | 7/27/2022 14:32 | 0.92 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-6D | COND | Conductivity | 7/25/2022 11:22 | 455.03 | uS/cm |
| GS-AP-MW-6D | DO | DO | 7/25/2022 11:22 | 0.11 | mg/L |
| GS-AP-MW-6D | DTW | Depth to Water Detail | 7/25/2022 11:22 | 11.72 | ft |
| GS-AP-MW-6D | ORP | Oxidation Reduction Potention | 7/25/2022 11:22 | 4.74 | mv |
| GS-AP-MW-6D | PH | pH | 7/25/2022 11:22 | 6.96 | SU |
| GS-AP-MW-6D | TEMP | Temperature | 7/25/2022 11:22 | 19.67 | C |
| GS-AP-MW-6D | TURB | Turbidity | 7/25/2022 11:22 | 0.36 | NTU |
| GS-AP-MW-6D | COND | Conductivity | 7/25/2022 11:27 | 455.45 | uS/cm |
| GS-AP-MW-6D | DO | DO | 7/25/2022 11:27 | 0.1 | mg/L |
| GS-AP-MW-6D | DTW | Depth to Water Detail | 7/25/2022 11:27 | 11.78 | ft |
| GS-AP-MW-6D | ORP | Oxidation Reduction Potention | 7/25/2022 11:27 | -11.4 | mv |
| GS-AP-MW-6D | PH | pH | 7/25/2022 11:27 | 6.92 | SU |
| GS-AP-MW-6D | TEMP | Temperature | 7/25/2022 11:27 | 19.53 | C |
| GS-AP-MW-6D | TURB | Turbidity | 7/25/2022 11:27 | 0.77 | NTU |
| GS-AP-MW-6D | COND | Conductivity | 7/25/2022 11:32 | 456.17 | uS/cm |
| GS-AP-MW-6D | DO | DO | 7/25/2022 11:32 | 0.1 | mg/L |
| GS-AP-MW-6D | DTW | Depth to Water Detail | 7/25/2022 11:32 | 11.79 | ft |
| GS-AP-MW-6D | ORP | Oxidation Reduction Potention | 7/25/2022 11:32 | -28.17 | mv |
| GS-AP-MW-6D | PH | pH | 7/25/2022 11:32 | 6.93 | SU |
| GS-AP-MW-6D | TEMP | Temperature | 7/25/2022 11:32 | 19.58 | C |
| GS-AP-MW-6D | TURB | Turbidity | 7/25/2022 11:32 | 0.22 | NTU |
| GS-AP-MW-6D | COND | Conductivity | 7/25/2022 11:37 | 456.88 | uS/cm |
| GS-AP-MW-6D | DO | DO | 7/25/2022 11:37 | 0.1 | mg/L |
| GS-AP-MW-6D | DTW | Depth to Water Detail | 7/25/2022 11:37 | 11.79 | ft |
| GS-AP-MW-6D | ORP | Oxidation Reduction Potention | 7/25/2022 11:37 | -45.12 | mv |
| GS-AP-MW-6D | PH | pH | 7/25/2022 11:37 | 6.95 | SU |
| GS-AP-MW-6D | SULFIDE | Sulfide | 7/25/2022 11:37 | 3 | mg/L |
| GS-AP-MW-6D | TEMP | Temperature | 7/25/2022 11:37 | 19.55 | C |
| GS-AP-MW-6D | TURB | Turbidity | 7/25/2022 11:37 | 0.35 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:06 | 470.59 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:06 | 0.09 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:06 | 17.52 | ft |
| GS-AP-MW-6S | ORP | Oxidation Reduction Potention | 7/26/2022 9:06 | -101.7 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:06 | 6.85 | SU |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:06 | 19.13 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:06 | 19 | NTU |
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:11 | 470.73 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:11 | 0.06 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:11 | 17.52 | ft |
| GS-AP-MW-6S | ORP | Oxidation Reduction Potention | 7/26/2022 9:11 | -105.41 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:11 | 6.89 | SU |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:11 | 19.28 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:11 | 19.2 | NTU |
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:16 | 470.13 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:16 | 0.06 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:16 | 17.52 | ft |
| GS-AP-MW-6S | ORP | Oxidation Reduction Potention | 7/26/2022 9:16 | -107.32 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:16 | 6.93 | SU |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:16 | 19.22 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:16 | 13.3 | NTU |
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:21 | 470.19 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:21 | 0.06 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:21 | 17.52 | ft |
| GS-AP-MW-6S | ORP | Oxidation Reduction Potention | 7/26/2022 9:21 | -107.29 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:21 | 6.94 | SU |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:21 | 19.19 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:21 | 12.47 | NTU |
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:26 | 471.01 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:26 | 0.05 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:26 | 17.52 | ft |
| GS-AP-MW-6S | ORP | Oxidation Reduction Potention | 7/26/2022 9:26 | -107.23 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:26 | 6.95 | SU |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:26 | 19.21 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:26 | 8.39 | NTU |
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:31 | 471.6 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:31 | 0.06 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:31 | 17.52 | ft |
| GS-AP-MW-6S | ORP | Oxidation Reduction Potention | 7/26/2022 9:31 | -105.57 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:31 | 6.96 | SU |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:31 | 19.2 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:31 | 7.24 | NTU |
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:36 | 473.32 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:36 | 0.07 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:36 | 17.52 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6S | ORP | Oxidation Reduction Potential | 7/26/2022 9:36 | -102.91 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:36 | 6.96 | SU |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:36 | 19.36 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:36 | 7.35 | NTU |
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:41 | 475.96 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:41 | 0.07 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:41 | 17.52 | ft |
| GS-AP-MW-6S | ORP | Oxidation Reduction Potential | 7/26/2022 9:41 | -99.6 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:41 | 6.95 | SU |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:41 | 19.53 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:41 | 5.91 | NTU |
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:46 | 477.4 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:46 | 0.09 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:46 | 17.52 | ft |
| GS-AP-MW-6S | ORP | Oxidation Reduction Potential | 7/26/2022 9:46 | -97.51 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:46 | 6.96 | SU |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:46 | 19.32 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:46 | 5.43 | NTU |
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:51 | 479.69 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:51 | 0.1 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:51 | 17.52 | ft |
| GS-AP-MW-6S | ORP | Oxidation Reduction Potential | 7/26/2022 9:51 | -95.43 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:51 | 6.97 | SU |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:51 | 19.39 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:51 | 5.01 | NTU |
| GS-AP-MW-6S | COND | Conductivity | 7/26/2022 9:56 | 481.64 | uS/cm |
| GS-AP-MW-6S | DO | DO | 7/26/2022 9:56 | 0.11 | mg/L |
| GS-AP-MW-6S | DTW | Depth to Water Detail | 7/26/2022 9:56 | 17.52 | ft |
| GS-AP-MW-6S | ORP | Oxidation Reduction Potential | 7/26/2022 9:56 | -93.3 | mv |
| GS-AP-MW-6S | PH | pH | 7/26/2022 9:56 | 6.97 | SU |
| GS-AP-MW-6S | SULFIDE | Sulfide | 7/26/2022 9:56 | 0 | mg/L |
| GS-AP-MW-6S | TEMP | Temperature | 7/26/2022 9:56 | 19.5 | C |
| GS-AP-MW-6S | TURB | Turbidity | 7/26/2022 9:56 | 4.77 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 15:11 | 1221.05 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 15:11 | 0.22 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 15:11 | 82.19 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 15:11 | -117.79 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 15:11 | 8.54 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 15:11 | 21.67 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 15:11 | 4.38 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 15:16 | 1136.81 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 15:16 | 0.22 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 15:16 | 82.59 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 15:16 | -135.43 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 15:16 | 8.55 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 15:16 | 21.07 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 15:16 | 4.99 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 15:21 | 1071.88 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 15:21 | 0.27 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 15:21 | 82.7 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 15:21 | -143.97 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 15:21 | 8.53 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 15:21 | 21.88 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 15:21 | 5.62 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 15:26 | 1028.12 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 15:26 | 0.28 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 15:26 | 82.72 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 15:26 | -145.67 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 15:26 | 8.55 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 15:26 | 22.48 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 15:26 | 8.48 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 15:31 | 1070.46 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 15:31 | 0.28 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 15:31 | 82.79 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 15:31 | -148.99 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 15:31 | 8.57 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 15:31 | 22.39 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 15:31 | 10.01 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 15:36 | 1190.72 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 15:36 | 0.31 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 15:36 | 82.83 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 15:36 | -151.11 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 15:36 | 8.56 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 15:36 | 22.12 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 15:36 | 10.84 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 15:41 | 1143.15 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 15:41 | 0.3 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 15:41 | 82.9 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6V | ORP | Oxidation Reduction Potential | 7/25/2022 15:41 | -153.59 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 15:41 | 8.56 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 15:41 | 22.34 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 15:41 | 11.38 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 15:46 | 1094.67 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 15:46 | 0.32 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 15:46 | 82.97 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potential | 7/25/2022 15:46 | -155.08 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 15:46 | 8.56 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 15:46 | 22.36 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 15:46 | 12.9 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 15:51 | 1228.67 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 15:51 | 0.32 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 15:51 | 83.05 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potential | 7/25/2022 15:51 | -155.77 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 15:51 | 8.56 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 15:51 | 21.62 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 15:51 | 11.3 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 15:56 | 1190.29 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 15:56 | 0.32 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 15:56 | 83.16 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potential | 7/25/2022 15:56 | -157.48 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 15:56 | 8.55 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 15:56 | 21.56 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 15:56 | 11.61 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:01 | 1148.08 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:01 | 0.33 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:01 | 83.29 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potential | 7/25/2022 16:01 | -157.85 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:01 | 8.55 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:01 | 21.48 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:01 | 12.07 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:06 | 1116.26 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:06 | 0.32 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:06 | 83.41 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potential | 7/25/2022 16:06 | -157.26 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:06 | 8.53 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:06 | 21.51 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:06 | 11.83 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:11 | 1089.72 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:11 | 0.33 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:11 | 83.48 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potential | 7/25/2022 16:11 | -157.35 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:11 | 8.52 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:11 | 21.17 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:11 | 11.7 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:16 | 1191.66 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:16 | 0.34 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:16 | 83.54 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 16:16 | -158.12 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:16 | 8.51 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:16 | 21.01 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:16 | 12.55 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:21 | 1323.76 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:21 | 0.52 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:21 | 83.8 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 16:21 | -130.34 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:21 | 8.53 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:21 | 20.82 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:21 | 12.69 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:26 | 1309.17 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:26 | 0.4 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:26 | 83.96 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 16:26 | -142.93 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:26 | 8.53 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:26 | 20.72 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:26 | 12 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:31 | 1297.15 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:31 | 0.37 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:31 | 84.11 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 16:31 | -150.07 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:31 | 8.52 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:31 | 20.59 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:31 | 12.5 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:36 | 1261.08 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:36 | 0.36 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:36 | 84.19 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 16:36 | -154.79 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:36 | 8.51 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:36 | 20.66 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:36 | 12.8 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:41 | 1236.6 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:41 | 0.36 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:41 | 84.31 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 16:41 | -157.57 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:41 | 8.52 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:41 | 20.68 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:41 | 12.4 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:46 | 1208.37 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:46 | 0.35 | mg/L |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:46 | 84.38 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 16:46 | -159.04 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:46 | 8.51 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:46 | 20.56 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:46 | 11.8 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:51 | 1179.57 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:51 | 0.36 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:51 | 84.47 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 16:51 | -159.92 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:51 | 8.52 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:51 | 20.61 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:51 | 11.5 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 16:56 | 1306.23 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 16:56 | 0.36 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 16:56 | 84.53 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 16:56 | -159.36 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 16:56 | 8.52 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 16:56 | 20.72 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 16:56 | 11.2 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:01 | 1271.61 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:01 | 0.36 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:01 | 84.81 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:01 | -160.28 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:01 | 8.53 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:01 | 20.79 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:01 | 11.5 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:06 | 1245.42 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:06 | 0.35 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:06 | 84.9 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:06 | -160.87 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:06 | 8.54 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:06 | 20.74 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:06 | 12.6 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:11 | 1224.93 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:11 | 0.35 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:11 | 85.08 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:11 | -161.7 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:11 | 8.55 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:11 | 20.74 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:11 | 12.1 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:16 | 1179.92 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:16 | 0.35 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:16 | 85.14 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:16 | -162.93 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:16 | 8.56 | SU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:16 | 20.66 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:16 | 12.6 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:21 | 1159.37 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:21 | 0.36 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:21 | 85.25 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:21 | -163.66 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:21 | 8.58 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:21 | 20.72 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:21 | 13.2 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:26 | 1139.81 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:26 | 0.35 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:26 | 85.4 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:26 | -165.48 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:26 | 8.59 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:26 | 20.78 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:26 | 13.9 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:31 | 1289.82 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:31 | 0.35 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:31 | 85.76 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:31 | -166.73 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:31 | 8.61 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:31 | 20.76 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:31 | 13.5 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:36 | 1247.87 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:36 | 0.35 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:36 | 85.85 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:36 | -167.8 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:36 | 8.62 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:36 | 20.86 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:36 | 13.4 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:41 | 1220.02 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:41 | 0.35 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:41 | 85.98 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:41 | -167.34 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:41 | 8.64 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:41 | 20.83 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:41 | 13.6 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:46 | 1188.09 | uS/cm |
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:46 | 0.36 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:46 | 85.13 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:46 | -168.18 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:46 | 8.64 | SU |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:46 | 20.78 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:46 | 12.6 | NTU |
| GS-AP-MW-6V | COND | Conductivity | 7/25/2022 17:51 | 1172.91 | uS/cm |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|------|
| GS-AP-MW-6V | DO | DO | 7/25/2022 17:51 | 0.36 | mg/L |
| GS-AP-MW-6V | DTW | Depth to Water Detail | 7/25/2022 17:51 | 85.24 | ft |
| GS-AP-MW-6V | ORP | Oxidation Reduction Potention | 7/25/2022 17:51 | -168.38 | mv |
| GS-AP-MW-6V | PH | pH | 7/25/2022 17:51 | 8.66 | SU |
| GS-AP-MW-6V | SULFIDE | Sulfide | 7/25/2022 17:51 | 0 | mg/L |
| GS-AP-MW-6V | TEMP | Temperature | 7/25/2022 17:51 | 20.69 | C |
| GS-AP-MW-6V | TURB | Turbidity | 7/25/2022 17:51 | 13.2 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-23H | COND | Conductivity | 7/26/2022 11:07 | 792.71 | uS/cm |
| GS-AP-MW-23H | DO | DO | 7/26/2022 11:07 | 0.68 | mg/L |
| GS-AP-MW-23H | DTW | Depth to Water Detail | 7/26/2022 11:07 | 29.41 | ft |
| GS-AP-MW-23H | ORP | Oxidation Reduction Potention | 7/26/2022 11:07 | 24.88 | mv |
| GS-AP-MW-23H | PH | pH | 7/26/2022 11:07 | 5.71 | SU |
| GS-AP-MW-23H | TEMP | Temperature | 7/26/2022 11:07 | 18.79 | C |
| GS-AP-MW-23H | TURB | Turbidity | 7/26/2022 11:07 | 4.67 | NTU |
| GS-AP-MW-23H | COND | Conductivity | 7/26/2022 11:12 | 786.2 | uS/cm |
| GS-AP-MW-23H | DO | DO | 7/26/2022 11:12 | 1.03 | mg/L |
| GS-AP-MW-23H | DTW | Depth to Water Detail | 7/26/2022 11:12 | 29.52 | ft |
| GS-AP-MW-23H | ORP | Oxidation Reduction Potention | 7/26/2022 11:12 | 31.16 | mv |
| GS-AP-MW-23H | PH | pH | 7/26/2022 11:12 | 5.66 | SU |
| GS-AP-MW-23H | TEMP | Temperature | 7/26/2022 11:12 | 18.84 | C |
| GS-AP-MW-23H | TURB | Turbidity | 7/26/2022 11:12 | 2.76 | NTU |
| GS-AP-MW-23H | COND | Conductivity | 7/26/2022 11:17 | 798.87 | uS/cm |
| GS-AP-MW-23H | DO | DO | 7/26/2022 11:17 | 0.77 | mg/L |
| GS-AP-MW-23H | DTW | Depth to Water Detail | 7/26/2022 11:17 | 29.52 | ft |
| GS-AP-MW-23H | ORP | Oxidation Reduction Potention | 7/26/2022 11:17 | 29.26 | mv |
| GS-AP-MW-23H | PH | pH | 7/26/2022 11:17 | 5.67 | SU |
| GS-AP-MW-23H | TEMP | Temperature | 7/26/2022 11:17 | 18.45 | C |
| GS-AP-MW-23H | TURB | Turbidity | 7/26/2022 11:17 | 3.24 | NTU |
| GS-AP-MW-23H | COND | Conductivity | 7/26/2022 11:22 | 799.51 | uS/cm |
| GS-AP-MW-23H | DO | DO | 7/26/2022 11:22 | 0.58 | mg/L |
| GS-AP-MW-23H | DTW | Depth to Water Detail | 7/26/2022 11:22 | 29.52 | ft |
| GS-AP-MW-23H | ORP | Oxidation Reduction Potention | 7/26/2022 11:22 | 26.21 | mv |
| GS-AP-MW-23H | PH | pH | 7/26/2022 11:22 | 5.69 | SU |
| GS-AP-MW-23H | TEMP | Temperature | 7/26/2022 11:22 | 18.66 | C |
| GS-AP-MW-23H | TURB | Turbidity | 7/26/2022 11:22 | 1.6 | NTU |
| GS-AP-MW-23H | COND | Conductivity | 7/26/2022 11:27 | 791.99 | uS/cm |
| GS-AP-MW-23H | DO | DO | 7/26/2022 11:27 | 0.42 | mg/L |
| GS-AP-MW-23H | DTW | Depth to Water Detail | 7/26/2022 11:27 | 29.52 | ft |
| GS-AP-MW-23H | ORP | Oxidation Reduction Potention | 7/26/2022 11:27 | 22.9 | mv |
| GS-AP-MW-23H | PH | pH | 7/26/2022 11:27 | 5.73 | SU |
| GS-AP-MW-23H | SULFIDE | Sulfide | 7/26/2022 11:27 | 0 | mg/L |
| GS-AP-MW-23H | TEMP | Temperature | 7/26/2022 11:27 | 18.66 | C |
| GS-AP-MW-23H | TURB | Turbidity | 7/26/2022 11:27 | 1.25 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-23V | COND | Conductivity | 7/26/2022 12:20 | 962.8 | uS/cm |
| GS-AP-MW-23V | DO | DO | 7/26/2022 12:20 | 0.23 | mg/L |
| GS-AP-MW-23V | DTW | Depth to Water Detail | 7/26/2022 12:20 | 43.83 | ft |
| GS-AP-MW-23V | ORP | Oxidation Reduction Potention | 7/26/2022 12:20 | -94.18 | mv |
| GS-AP-MW-23V | PH | pH | 7/26/2022 12:20 | 7.1 | SU |
| GS-AP-MW-23V | TEMP | Temperature | 7/26/2022 12:20 | 18.99 | C |
| GS-AP-MW-23V | TURB | Turbidity | 7/26/2022 12:20 | 5.32 | NTU |
| GS-AP-MW-23V | COND | Conductivity | 7/26/2022 12:25 | 962.6 | uS/cm |
| GS-AP-MW-23V | DO | DO | 7/26/2022 12:25 | 0.17 | mg/L |
| GS-AP-MW-23V | DTW | Depth to Water Detail | 7/26/2022 12:25 | 43.92 | ft |
| GS-AP-MW-23V | ORP | Oxidation Reduction Potention | 7/26/2022 12:25 | -95.25 | mv |
| GS-AP-MW-23V | PH | pH | 7/26/2022 12:25 | 7.05 | SU |
| GS-AP-MW-23V | TEMP | Temperature | 7/26/2022 12:25 | 18.97 | C |
| GS-AP-MW-23V | TURB | Turbidity | 7/26/2022 12:25 | 3.1 | NTU |
| GS-AP-MW-23V | COND | Conductivity | 7/26/2022 12:30 | 960.24 | uS/cm |
| GS-AP-MW-23V | DO | DO | 7/26/2022 12:30 | 0.15 | mg/L |
| GS-AP-MW-23V | DTW | Depth to Water Detail | 7/26/2022 12:30 | 43.92 | ft |
| GS-AP-MW-23V | ORP | Oxidation Reduction Potention | 7/26/2022 12:30 | -95.98 | mv |
| GS-AP-MW-23V | PH | pH | 7/26/2022 12:30 | 7.06 | SU |
| GS-AP-MW-23V | TEMP | Temperature | 7/26/2022 12:30 | 18.99 | C |
| GS-AP-MW-23V | TURB | Turbidity | 7/26/2022 12:30 | 2.15 | NTU |
| GS-AP-MW-23V | COND | Conductivity | 7/26/2022 12:35 | 958.52 | uS/cm |
| GS-AP-MW-23V | DO | DO | 7/26/2022 12:35 | 0.15 | mg/L |
| GS-AP-MW-23V | DTW | Depth to Water Detail | 7/26/2022 12:35 | 43.92 | ft |
| GS-AP-MW-23V | ORP | Oxidation Reduction Potention | 7/26/2022 12:35 | -97.41 | mv |
| GS-AP-MW-23V | PH | pH | 7/26/2022 12:35 | 7.07 | SU |
| GS-AP-MW-23V | TEMP | Temperature | 7/26/2022 12:35 | 19.03 | C |
| GS-AP-MW-23V | TURB | Turbidity | 7/26/2022 12:35 | 1.34 | NTU |
| GS-AP-MW-23V | COND | Conductivity | 7/26/2022 12:40 | 958.21 | uS/cm |
| GS-AP-MW-23V | DO | DO | 7/26/2022 12:40 | 0.15 | mg/L |
| GS-AP-MW-23V | DTW | Depth to Water Detail | 7/26/2022 12:40 | 43.92 | ft |
| GS-AP-MW-23V | ORP | Oxidation Reduction Potention | 7/26/2022 12:40 | -99.58 | mv |
| GS-AP-MW-23V | PH | pH | 7/26/2022 12:40 | 7.1 | SU |
| GS-AP-MW-23V | SULFIDE | Sulfide | 7/26/2022 12:40 | 0 | mg/L |
| GS-AP-MW-23V | TEMP | Temperature | 7/26/2022 12:40 | 18.98 | C |
| GS-AP-MW-23V | TURB | Turbidity | 7/26/2022 12:40 | 1.23 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-24H | COND | Conductivity | 7/27/2022 9:50 | 385.83 | uS/cm |
| GS-AP-MW-24H | DO | DO | 7/27/2022 9:50 | 0.15 | mg/L |
| GS-AP-MW-24H | DTW | Depth to Water Detail | 7/27/2022 9:50 | 6.52 | ft |
| GS-AP-MW-24H | ORP | Oxidation Reduction Potention | 7/27/2022 9:50 | -82.71 | mv |
| GS-AP-MW-24H | PH | pH | 7/27/2022 9:50 | 6.98 | SU |
| GS-AP-MW-24H | TEMP | Temperature | 7/27/2022 9:50 | 19.62 | C |
| GS-AP-MW-24H | TURB | Turbidity | 7/27/2022 9:50 | 3.47 | NTU |
| GS-AP-MW-24H | COND | Conductivity | 7/27/2022 9:55 | 387.61 | uS/cm |
| GS-AP-MW-24H | DO | DO | 7/27/2022 9:55 | 0.13 | mg/L |
| GS-AP-MW-24H | DTW | Depth to Water Detail | 7/27/2022 9:55 | 6.52 | ft |
| GS-AP-MW-24H | ORP | Oxidation Reduction Potention | 7/27/2022 9:55 | -83.86 | mv |
| GS-AP-MW-24H | PH | pH | 7/27/2022 9:55 | 7 | SU |
| GS-AP-MW-24H | TEMP | Temperature | 7/27/2022 9:55 | 19.57 | C |
| GS-AP-MW-24H | TURB | Turbidity | 7/27/2022 9:55 | 2.71 | NTU |
| GS-AP-MW-24H | COND | Conductivity | 7/27/2022 10:00 | 388.12 | uS/cm |
| GS-AP-MW-24H | DO | DO | 7/27/2022 10:00 | 0.12 | mg/L |
| GS-AP-MW-24H | DTW | Depth to Water Detail | 7/27/2022 10:00 | 6.52 | ft |
| GS-AP-MW-24H | ORP | Oxidation Reduction Potention | 7/27/2022 10:00 | -82.82 | mv |
| GS-AP-MW-24H | PH | pH | 7/27/2022 10:00 | 6.99 | SU |
| GS-AP-MW-24H | TEMP | Temperature | 7/27/2022 10:00 | 19.56 | C |
| GS-AP-MW-24H | TURB | Turbidity | 7/27/2022 10:00 | 3.02 | NTU |
| GS-AP-MW-24H | COND | Conductivity | 7/27/2022 10:05 | 389.18 | uS/cm |
| GS-AP-MW-24H | DO | DO | 7/27/2022 10:05 | 0.11 | mg/L |
| GS-AP-MW-24H | DTW | Depth to Water Detail | 7/27/2022 10:05 | 6.52 | ft |
| GS-AP-MW-24H | ORP | Oxidation Reduction Potention | 7/27/2022 10:05 | -82.14 | mv |
| GS-AP-MW-24H | PH | pH | 7/27/2022 10:05 | 6.98 | SU |
| GS-AP-MW-24H | SULFIDE | Sulfide | 7/27/2022 10:05 | 0 | mg/L |
| GS-AP-MW-24H | TEMP | Temperature | 7/27/2022 10:05 | 19.29 | C |
| GS-AP-MW-24H | TURB | Turbidity | 7/27/2022 10:05 | 3.06 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-41HS | COND | Conductivity | 7/26/2022 13:51 | 411.33 | uS/cm |
| GS-AP-MW-41HS | DO | DO | 7/26/2022 13:51 | 1.94 | mg/L |
| GS-AP-MW-41HS | DTW | Depth to Water Detail | 7/26/2022 13:51 | 22.3 | ft |
| GS-AP-MW-41HS | ORP | Oxidation Reduction Potention | 7/26/2022 13:51 | 69.96 | mv |
| GS-AP-MW-41HS | PH | pH | 7/26/2022 13:51 | 6.2 | SU |
| GS-AP-MW-41HS | TEMP | Temperature | 7/26/2022 13:51 | 21.34 | C |
| GS-AP-MW-41HS | TURB | Turbidity | 7/26/2022 13:51 | 6.68 | NTU |
| GS-AP-MW-41HS | COND | Conductivity | 7/26/2022 13:56 | 412.88 | uS/cm |
| GS-AP-MW-41HS | DO | DO | 7/26/2022 13:56 | 1.72 | mg/L |
| GS-AP-MW-41HS | DTW | Depth to Water Detail | 7/26/2022 13:56 | 22.49 | ft |
| GS-AP-MW-41HS | ORP | Oxidation Reduction Potention | 7/26/2022 13:56 | 63.37 | mv |
| GS-AP-MW-41HS | PH | pH | 7/26/2022 13:56 | 6.2 | SU |
| GS-AP-MW-41HS | TEMP | Temperature | 7/26/2022 13:56 | 21.07 | C |
| GS-AP-MW-41HS | TURB | Turbidity | 7/26/2022 13:56 | 6.2 | NTU |
| GS-AP-MW-41HS | COND | Conductivity | 7/26/2022 14:01 | 414.38 | uS/cm |
| GS-AP-MW-41HS | DO | DO | 7/26/2022 14:01 | 1.53 | mg/L |
| GS-AP-MW-41HS | DTW | Depth to Water Detail | 7/26/2022 14:01 | 22.61 | ft |
| GS-AP-MW-41HS | ORP | Oxidation Reduction Potention | 7/26/2022 14:01 | 57.87 | mv |
| GS-AP-MW-41HS | PH | pH | 7/26/2022 14:01 | 6.19 | SU |
| GS-AP-MW-41HS | TEMP | Temperature | 7/26/2022 14:01 | 21.23 | C |
| GS-AP-MW-41HS | TURB | Turbidity | 7/26/2022 14:01 | 4.41 | NTU |
| GS-AP-MW-41HS | COND | Conductivity | 7/26/2022 14:06 | 412.4 | uS/cm |
| GS-AP-MW-41HS | DO | DO | 7/26/2022 14:06 | 1.42 | mg/L |
| GS-AP-MW-41HS | DTW | Depth to Water Detail | 7/26/2022 14:06 | 22.73 | ft |
| GS-AP-MW-41HS | ORP | Oxidation Reduction Potention | 7/26/2022 14:06 | 55.05 | mv |
| GS-AP-MW-41HS | PH | pH | 7/26/2022 14:06 | 6.19 | SU |
| GS-AP-MW-41HS | TEMP | Temperature | 7/26/2022 14:06 | 21.07 | C |
| GS-AP-MW-41HS | TURB | Turbidity | 7/26/2022 14:06 | 4.98 | NTU |
| GS-AP-MW-41HS | COND | Conductivity | 7/26/2022 14:11 | 413.7 | uS/cm |
| GS-AP-MW-41HS | DO | DO | 7/26/2022 14:11 | 1.35 | mg/L |
| GS-AP-MW-41HS | DTW | Depth to Water Detail | 7/26/2022 14:11 | 22.9 | ft |
| GS-AP-MW-41HS | ORP | Oxidation Reduction Potention | 7/26/2022 14:11 | 53.14 | mv |
| GS-AP-MW-41HS | PH | pH | 7/26/2022 14:11 | 6.19 | SU |
| GS-AP-MW-41HS | SULFIDE | Sulfide | 7/26/2022 14:11 | 0 | mg/L |
| GS-AP-MW-41HS | TEMP | Temperature | 7/26/2022 14:11 | 21.18 | C |
| GS-AP-MW-41HS | TURB | Turbidity | 7/26/2022 14:11 | 4.78 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-41HD | COND | Conductivity | 7/27/2022 11:16 | 447.26 | uS/cm |
| GS-AP-MW-41HD | DO | DO | 7/27/2022 11:16 | 0.13 | mg/L |
| GS-AP-MW-41HD | DTW | Depth to Water Detail | 7/27/2022 11:16 | 4.69 | ft |
| GS-AP-MW-41HD | ORP | Oxidation Reduction Potention | 7/27/2022 11:16 | -31.68 | mv |
| GS-AP-MW-41HD | PH | pH | 7/27/2022 11:16 | 7.23 | SU |
| GS-AP-MW-41HD | TEMP | Temperature | 7/27/2022 11:16 | 19.77 | C |
| GS-AP-MW-41HD | TURB | Turbidity | 7/27/2022 11:16 | 0.6 | NTU |
| GS-AP-MW-41HD | COND | Conductivity | 7/27/2022 11:21 | 447.36 | uS/cm |
| GS-AP-MW-41HD | DO | DO | 7/27/2022 11:21 | 0.12 | mg/L |
| GS-AP-MW-41HD | DTW | Depth to Water Detail | 7/27/2022 11:21 | 5.56 | ft |
| GS-AP-MW-41HD | ORP | Oxidation Reduction Potention | 7/27/2022 11:21 | -22.69 | mv |
| GS-AP-MW-41HD | PH | pH | 7/27/2022 11:21 | 7.16 | SU |
| GS-AP-MW-41HD | TEMP | Temperature | 7/27/2022 11:21 | 19.25 | C |
| GS-AP-MW-41HD | TURB | Turbidity | 7/27/2022 11:21 | 0.37 | NTU |
| GS-AP-MW-41HD | COND | Conductivity | 7/27/2022 11:26 | 447.03 | uS/cm |
| GS-AP-MW-41HD | DO | DO | 7/27/2022 11:26 | 0.12 | mg/L |
| GS-AP-MW-41HD | DTW | Depth to Water Detail | 7/27/2022 11:26 | 6.41 | ft |
| GS-AP-MW-41HD | ORP | Oxidation Reduction Potention | 7/27/2022 11:26 | -17.18 | mv |
| GS-AP-MW-41HD | PH | pH | 7/27/2022 11:26 | 7.13 | SU |
| GS-AP-MW-41HD | TEMP | Temperature | 7/27/2022 11:26 | 19.2 | C |
| GS-AP-MW-41HD | TURB | Turbidity | 7/27/2022 11:26 | 0.29 | NTU |
| GS-AP-MW-41HD | COND | Conductivity | 7/27/2022 11:31 | 446.4 | uS/cm |
| GS-AP-MW-41HD | DO | DO | 7/27/2022 11:31 | 0.12 | mg/L |
| GS-AP-MW-41HD | DTW | Depth to Water Detail | 7/27/2022 11:31 | 6.63 | ft |
| GS-AP-MW-41HD | ORP | Oxidation Reduction Potention | 7/27/2022 11:31 | -12.5 | mv |
| GS-AP-MW-41HD | PH | pH | 7/27/2022 11:31 | 7.13 | SU |
| GS-AP-MW-41HD | TEMP | Temperature | 7/27/2022 11:31 | 19.26 | C |
| GS-AP-MW-41HD | TURB | Turbidity | 7/27/2022 11:31 | 0.35 | NTU |
| GS-AP-MW-41HD | COND | Conductivity | 7/27/2022 11:36 | 451.42 | uS/cm |
| GS-AP-MW-41HD | DO | DO | 7/27/2022 11:36 | 0.12 | mg/L |
| GS-AP-MW-41HD | DTW | Depth to Water Detail | 7/27/2022 11:36 | 6.79 | ft |
| GS-AP-MW-41HD | ORP | Oxidation Reduction Potention | 7/27/2022 11:36 | -10.18 | mv |
| GS-AP-MW-41HD | PH | pH | 7/27/2022 11:36 | 7.15 | SU |
| GS-AP-MW-41HD | TEMP | Temperature | 7/27/2022 11:36 | 19.11 | C |
| GS-AP-MW-41HD | TURB | Turbidity | 7/27/2022 11:36 | 0.35 | NTU |
| GS-AP-MW-41HD | COND | Conductivity | 7/27/2022 11:41 | 450.11 | uS/cm |
| GS-AP-MW-41HD | DO | DO | 7/27/2022 11:41 | 0.12 | mg/L |
| GS-AP-MW-41HD | DTW | Depth to Water Detail | 7/27/2022 11:41 | 6.89 | ft |
| GS-AP-MW-41HD | ORP | Oxidation Reduction Potention | 7/27/2022 11:41 | -7.62 | mv |
| GS-AP-MW-41HD | PH | pH | 7/27/2022 11:41 | 7.16 | SU |
| GS-AP-MW-41HD | SULFIDE | Sulfide | 7/27/2022 11:41 | 0 | mg/L |
| GS-AP-MW-41HD | TEMP | Temperature | 7/27/2022 11:41 | 18.86 | C |
| GS-AP-MW-41HD | TURB | Turbidity | 7/27/2022 11:41 | 0.41 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:04 | 932.82 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:04 | 0.13 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:04 | 54.49 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potention | 7/27/2022 13:04 | 0.69 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:04 | 6.47 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:04 | 19.29 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:04 | 82.5 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:09 | 935.27 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:09 | 0.12 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:09 | 53.56 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potention | 7/27/2022 13:09 | 3.74 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:09 | 6.41 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:09 | 19.15 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:09 | 42.3 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:14 | 938.36 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:14 | 0.11 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:14 | 53.57 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potention | 7/27/2022 13:14 | 3.51 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:14 | 6.4 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:14 | 19.32 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:14 | 23.1 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:19 | 937.17 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:19 | 0.11 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:19 | 53.58 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potention | 7/27/2022 13:19 | 1.48 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:19 | 6.42 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:19 | 19.4 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:19 | 17.7 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:24 | 939.97 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:24 | 0.1 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:24 | 53.59 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potention | 7/27/2022 13:24 | 0.03 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:24 | 6.45 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:24 | 19.29 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:24 | 13.8 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:29 | 941.97 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:29 | 0.11 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:29 | 53.6 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potention | 7/27/2022 13:29 | -1.87 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:29 | 6.47 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:29 | 19.02 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:29 | 11.2 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:34 | 942.2 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:34 | 0.1 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:34 | 53.61 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-42H | ORP | Oxidation Reduction Potential | 7/27/2022 13:34 | -3.96 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:34 | 6.5 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:34 | 19.18 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:34 | 9.62 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:39 | 940.68 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:39 | 0.1 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:39 | 53.62 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potential | 7/27/2022 13:39 | -5.41 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:39 | 6.52 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:39 | 19.29 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:39 | 8.96 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:44 | 939.92 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:44 | 0.1 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:44 | 53.64 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potential | 7/27/2022 13:44 | -6.89 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:44 | 6.54 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:44 | 19.46 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:44 | 7.72 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:49 | 941.16 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:49 | 0.1 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:49 | 53.64 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potential | 7/27/2022 13:49 | -8.87 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:49 | 6.57 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:49 | 19.2 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:49 | 6.78 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:54 | 949.53 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:54 | 0.1 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:54 | 53.64 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potential | 7/27/2022 13:54 | -9.62 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:54 | 6.58 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:54 | 19.12 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:54 | 7.82 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 13:59 | 947.91 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 13:59 | 0.1 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 13:59 | 53.64 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potential | 7/27/2022 13:59 | -10.23 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 13:59 | 6.59 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 13:59 | 19.18 | C |
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 13:59 | 5.78 | NTU |
| GS-AP-MW-42H | COND | Conductivity | 7/27/2022 14:04 | 947.31 | uS/cm |
| GS-AP-MW-42H | DO | DO | 7/27/2022 14:04 | 0.1 | mg/L |
| GS-AP-MW-42H | DTW | Depth to Water Detail | 7/27/2022 14:04 | 53.64 | ft |
| GS-AP-MW-42H | ORP | Oxidation Reduction Potential | 7/27/2022 14:04 | -10.43 | mv |
| GS-AP-MW-42H | PH | pH | 7/27/2022 14:04 | 6.59 | SU |
| GS-AP-MW-42H | TEMP | Temperature | 7/27/2022 14:04 | 19.35 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|--------------------|--------------------|------------------------|--------------|-------------|
| GS-AP-MW-42H | TURB | Turbidity | 7/27/2022 14:04 | 4.25 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 12:57 | 1386.2 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 12:57 | 0.28 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 12:57 | 63.7 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potention | 7/19/2022 12:57 | 19.49 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 12:57 | 6.36 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 12:57 | 19.11 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 12:57 | 8.57 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:02 | 1234.41 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:02 | 0.19 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:02 | 64.02 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potention | 7/19/2022 13:02 | -2.34 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:02 | 6.34 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:02 | 19.08 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:02 | 3.61 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:07 | 1064.51 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:07 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:07 | 64.14 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potention | 7/19/2022 13:07 | -15.89 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:07 | 6.32 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:07 | 19.07 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:07 | 1.54 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:12 | 945.55 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:12 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:12 | 64.18 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potention | 7/19/2022 13:12 | -26.35 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:12 | 6.31 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:12 | 19.08 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:12 | 1.13 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:17 | 860.26 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:17 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:17 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potention | 7/19/2022 13:17 | -34.61 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:17 | 6.31 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:17 | 18.85 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:17 | 1.5 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:22 | 787.97 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:22 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:22 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potention | 7/19/2022 13:22 | -42.03 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:22 | 6.32 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:22 | 18.96 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:22 | 0.88 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:27 | 719.83 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:27 | 0.18 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:27 | 64.29 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-09R | ORP | Oxidation Reduction Potential | 7/19/2022 13:27 | -47.27 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:27 | 6.32 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:27 | 19.04 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:27 | 0.93 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:32 | 667.94 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:32 | 0.18 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:32 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potential | 7/19/2022 13:32 | -50.22 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:32 | 6.33 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:32 | 19.03 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:32 | 0.83 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:37 | 639.23 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:37 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:37 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potential | 7/19/2022 13:37 | -51.24 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:37 | 6.31 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:37 | 18.88 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:37 | 1.14 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:42 | 618.08 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:42 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:42 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potential | 7/19/2022 13:42 | -53.66 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:42 | 6.31 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:42 | 19.08 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:42 | 1.02 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:47 | 592.23 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:47 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:47 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potential | 7/19/2022 13:47 | -56.18 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:47 | 6.33 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:47 | 19.28 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:47 | 1.26 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:52 | 565 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:52 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:52 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potential | 7/19/2022 13:52 | -57.88 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:52 | 6.33 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:52 | 19.13 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:52 | 0.99 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 13:57 | 544.84 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 13:57 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 13:57 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potential | 7/19/2022 13:57 | -57.63 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 13:57 | 6.31 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 13:57 | 19.25 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 13:57 | 1.02 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 14:02 | 536.12 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 14:02 | 0.18 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 14:02 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potention | 7/19/2022 14:02 | -59.12 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 14:02 | 6.31 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 14:02 | 19.19 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 14:02 | 1.33 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 14:07 | 515.67 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 14:07 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 14:07 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potention | 7/19/2022 14:07 | -60.52 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 14:07 | 6.32 | SU |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 14:07 | 19.15 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 14:07 | 1.24 | NTU |
| GS-AP-MW-09R | COND | Conductivity | 7/19/2022 14:12 | 515.16 | uS/cm |
| GS-AP-MW-09R | DO | DO | 7/19/2022 14:12 | 0.17 | mg/L |
| GS-AP-MW-09R | DTW | Depth to Water Detail | 7/19/2022 14:12 | 64.29 | ft |
| GS-AP-MW-09R | ORP | Oxidation Reduction Potention | 7/19/2022 14:12 | -60.58 | mv |
| GS-AP-MW-09R | PH | pH | 7/19/2022 14:12 | 6.31 | SU |
| GS-AP-MW-09R | SULFIDE | Sulfide | 7/19/2022 14:12 | 1 | mg/L |
| GS-AP-MW-09R | TEMP | Temperature | 7/19/2022 14:12 | 19.22 | C |
| GS-AP-MW-09R | TURB | Turbidity | 7/19/2022 14:12 | 1.33 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:03 | 968.88 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:03 | 0.85 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:03 | 63.51 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potention | 7/19/2022 15:03 | -162.02 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:03 | 7.05 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:03 | 19.38 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:03 | 0.78 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:08 | 904.57 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:08 | 0.77 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:08 | 64.79 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potention | 7/19/2022 15:08 | -166.39 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:08 | 7.04 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:08 | 19.46 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:08 | 0.68 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:13 | 870.61 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:13 | 1.06 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:13 | 65.02 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potention | 7/19/2022 15:13 | -164.87 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:13 | 7.04 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:13 | 20.47 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:13 | 0.86 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:18 | 843.42 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:18 | 0.99 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:18 | 65.18 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potention | 7/19/2022 15:18 | -165.13 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:18 | 7.09 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:18 | 20.13 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:18 | 0.79 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:23 | 746.31 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:23 | 1 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:23 | 65.39 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potention | 7/19/2022 15:23 | -162.83 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:23 | 7.07 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:23 | 20.17 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:23 | 1.04 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:28 | 680.5 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:28 | 1.01 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:28 | 65.5 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potention | 7/19/2022 15:28 | -160.28 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:28 | 7.06 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:28 | 20.04 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:28 | 0.89 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:33 | 620.81 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:33 | 1 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:33 | 65.79 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-9V | ORP | Oxidation Reduction Potential | 7/19/2022 15:33 | -157.58 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:33 | 7.04 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:33 | 19.91 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:33 | 0.62 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:38 | 586.41 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:38 | 1.02 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:38 | 65.91 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potential | 7/19/2022 15:38 | -155.29 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:38 | 7.03 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:38 | 19.79 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:38 | 0.66 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:43 | 561.71 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:43 | 1.03 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:43 | 66.03 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potential | 7/19/2022 15:43 | -154.25 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:43 | 7.01 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:43 | 19.87 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:43 | 0.61 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:48 | 536.13 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:48 | 1.05 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:48 | 66.11 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potential | 7/19/2022 15:48 | -152.28 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:48 | 7 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:48 | 19.89 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:48 | 0.27 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:53 | 533.73 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:53 | 1.07 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:53 | 66.17 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potential | 7/19/2022 15:53 | -152.41 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:53 | 6.99 | SU |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:53 | 19.88 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:53 | 0.33 | NTU |
| GS-AP-MW-9V | COND | Conductivity | 7/19/2022 15:58 | 519.52 | uS/cm |
| GS-AP-MW-9V | DO | DO | 7/19/2022 15:58 | 1.08 | mg/L |
| GS-AP-MW-9V | DTW | Depth to Water Detail | 7/19/2022 15:58 | 66.22 | ft |
| GS-AP-MW-9V | ORP | Oxidation Reduction Potential | 7/19/2022 15:58 | -152.29 | mv |
| GS-AP-MW-9V | PH | pH | 7/19/2022 15:58 | 6.99 | SU |
| GS-AP-MW-9V | SULFIDE | Sulfide | 7/19/2022 15:58 | 2 | mg/L |
| GS-AP-MW-9V | TEMP | Temperature | 7/19/2022 15:58 | 19.64 | C |
| GS-AP-MW-9V | TURB | Turbidity | 7/19/2022 15:58 | 0.44 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-03V | COND | Conductivity | 7/20/2022 9:22 | 1495.9 | uS/cm |
| GS-AP-MW-03V | DO | DO | 7/20/2022 9:22 | 6.29 | mg/L |
| GS-AP-MW-03V | DTW | Depth to Water Detail | 7/20/2022 9:22 | 155.8 | ft |
| GS-AP-MW-03V | ORP | Oxidation Reduction Potention | 7/20/2022 9:22 | 34.92 | mv |
| GS-AP-MW-03V | PH | pH | 7/20/2022 9:22 | 7.43 | SU |
| GS-AP-MW-03V | TEMP | Temperature | 7/20/2022 9:22 | 21.07 | C |
| GS-AP-MW-03V | TURB | Turbidity | 7/20/2022 9:22 | 3.02 | NTU |
| GS-AP-MW-03V | COND | Conductivity | 7/20/2022 9:27 | 1871.81 | uS/cm |
| GS-AP-MW-03V | DO | DO | 7/20/2022 9:27 | 3.17 | mg/L |
| GS-AP-MW-03V | DTW | Depth to Water Detail | 7/20/2022 9:27 | 156.45 | ft |
| GS-AP-MW-03V | ORP | Oxidation Reduction Potention | 7/20/2022 9:27 | -23.64 | mv |
| GS-AP-MW-03V | PH | pH | 7/20/2022 9:27 | 7.35 | SU |
| GS-AP-MW-03V | TEMP | Temperature | 7/20/2022 9:27 | 20.76 | C |
| GS-AP-MW-03V | TURB | Turbidity | 7/20/2022 9:27 | 7.11 | NTU |
| GS-AP-MW-03V | COND | Conductivity | 7/20/2022 9:32 | 2628.82 | uS/cm |
| GS-AP-MW-03V | DO | DO | 7/20/2022 9:32 | 1.7 | mg/L |
| GS-AP-MW-03V | DTW | Depth to Water Detail | 7/20/2022 9:32 | 156.71 | ft |
| GS-AP-MW-03V | ORP | Oxidation Reduction Potention | 7/20/2022 9:32 | -27.18 | mv |
| GS-AP-MW-03V | PH | pH | 7/20/2022 9:32 | 7.35 | SU |
| GS-AP-MW-03V | TEMP | Temperature | 7/20/2022 9:32 | 20.49 | C |
| GS-AP-MW-03V | TURB | Turbidity | 7/20/2022 9:32 | 6.56 | NTU |
| GS-AP-MW-03V | COND | Conductivity | 7/20/2022 9:37 | 3124.05 | uS/cm |
| GS-AP-MW-03V | DO | DO | 7/20/2022 9:37 | 1.56 | mg/L |
| GS-AP-MW-03V | DTW | Depth to Water Detail | 7/20/2022 9:37 | 156.92 | ft |
| GS-AP-MW-03V | ORP | Oxidation Reduction Potention | 7/20/2022 9:37 | -16.07 | mv |
| GS-AP-MW-03V | PH | pH | 7/20/2022 9:37 | 7.36 | SU |
| GS-AP-MW-03V | TEMP | Temperature | 7/20/2022 9:37 | 20.27 | C |
| GS-AP-MW-03V | TURB | Turbidity | 7/20/2022 9:37 | 5.48 | NTU |
| GS-AP-MW-03V | COND | Conductivity | 7/20/2022 9:42 | 3290.33 | uS/cm |
| GS-AP-MW-03V | DO | DO | 7/20/2022 9:42 | 1.58 | mg/L |
| GS-AP-MW-03V | DTW | Depth to Water Detail | 7/20/2022 9:42 | 157.15 | ft |
| GS-AP-MW-03V | ORP | Oxidation Reduction Potention | 7/20/2022 9:42 | -16.19 | mv |
| GS-AP-MW-03V | PH | pH | 7/20/2022 9:42 | 7.37 | SU |
| GS-AP-MW-03V | TEMP | Temperature | 7/20/2022 9:42 | 20.46 | C |
| GS-AP-MW-03V | TURB | Turbidity | 7/20/2022 9:42 | 4.93 | NTU |
| GS-AP-MW-03V | COND | Conductivity | 7/20/2022 9:47 | 3331.05 | uS/cm |
| GS-AP-MW-03V | DO | DO | 7/20/2022 9:47 | 1.63 | mg/L |
| GS-AP-MW-03V | DTW | Depth to Water Detail | 7/20/2022 9:47 | 157.42 | ft |
| GS-AP-MW-03V | ORP | Oxidation Reduction Potention | 7/20/2022 9:47 | -33.49 | mv |
| GS-AP-MW-03V | PH | pH | 7/20/2022 9:47 | 7.38 | SU |
| GS-AP-MW-03V | TEMP | Temperature | 7/20/2022 9:47 | 20.48 | C |
| GS-AP-MW-03V | TURB | Turbidity | 7/20/2022 9:47 | 3.47 | NTU |
| GS-AP-MW-03V | COND | Conductivity | 7/20/2022 9:52 | 3297.86 | uS/cm |
| GS-AP-MW-03V | DO | DO | 7/20/2022 9:52 | 1.63 | mg/L |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-03V | DTW | Depth to Water Detail | 7/20/2022 9:52 | 157.51 | ft |
| GS-AP-MW-03V | ORP | Oxidation Reduction Potention | 7/20/2022 9:52 | -55.75 | mv |
| GS-AP-MW-03V | PH | pH | 7/20/2022 9:52 | 7.39 | SU |
| GS-AP-MW-03V | TEMP | Temperature | 7/20/2022 9:52 | 20.46 | C |
| GS-AP-MW-03V | TURB | Turbidity | 7/20/2022 9:52 | 3.83 | NTU |
| GS-AP-MW-03V | COND | Conductivity | 7/20/2022 9:57 | 3244.12 | uS/cm |
| GS-AP-MW-03V | DO | DO | 7/20/2022 9:57 | 1.58 | mg/L |
| GS-AP-MW-03V | DTW | Depth to Water Detail | 7/20/2022 9:57 | 157.59 | ft |
| GS-AP-MW-03V | ORP | Oxidation Reduction Potention | 7/20/2022 9:57 | -67.44 | mv |
| GS-AP-MW-03V | PH | pH | 7/20/2022 9:57 | 7.4 | SU |
| GS-AP-MW-03V | TEMP | Temperature | 7/20/2022 9:57 | 20.45 | C |
| GS-AP-MW-03V | TURB | Turbidity | 7/20/2022 9:57 | 3.46 | NTU |
| GS-AP-MW-03V | COND | Conductivity | 7/20/2022 10:02 | 3180.39 | uS/cm |
| GS-AP-MW-03V | DO | DO | 7/20/2022 10:02 | 1.51 | mg/L |
| GS-AP-MW-03V | DTW | Depth to Water Detail | 7/20/2022 10:02 | 157.68 | ft |
| GS-AP-MW-03V | ORP | Oxidation Reduction Potention | 7/20/2022 10:02 | -74.13 | mv |
| GS-AP-MW-03V | PH | pH | 7/20/2022 10:02 | 7.41 | SU |
| GS-AP-MW-03V | SULFIDE | Sulfide | 7/20/2022 10:02 | 0 | mg/L |
| GS-AP-MW-03V | TEMP | Temperature | 7/20/2022 10:02 | 20.41 | C |
| GS-AP-MW-03V | TURB | Turbidity | 7/20/2022 10:02 | 3.31 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-3 | COND | Conductivity | 7/20/2022 11:03 | 0.06 | uS/cm |
| GS-AP-MW-3 | DO | DO | 7/20/2022 11:03 | 0.54 | mg/L |
| GS-AP-MW-3 | DTW | Depth to Water Detail | 7/20/2022 11:03 | 146.73 | ft |
| GS-AP-MW-3 | ORP | Oxidation Reduction Potention | 7/20/2022 11:03 | -105.98 | mv |
| GS-AP-MW-3 | PH | pH | 7/20/2022 11:03 | 8.17 | SU |
| GS-AP-MW-3 | TEMP | Temperature | 7/20/2022 11:03 | 20.63 | C |
| GS-AP-MW-3 | TURB | Turbidity | 7/20/2022 11:03 | 1.23 | NTU |
| GS-AP-MW-3 | COND | Conductivity | 7/20/2022 11:08 | 444.13 | uS/cm |
| GS-AP-MW-3 | DO | DO | 7/20/2022 11:08 | 3.91 | mg/L |
| GS-AP-MW-3 | DTW | Depth to Water Detail | 7/20/2022 11:08 | 148.16 | ft |
| GS-AP-MW-3 | ORP | Oxidation Reduction Potention | 7/20/2022 11:08 | -102.05 | mv |
| GS-AP-MW-3 | PH | pH | 7/20/2022 11:08 | 8.21 | SU |
| GS-AP-MW-3 | TEMP | Temperature | 7/20/2022 11:08 | 19.35 | C |
| GS-AP-MW-3 | TURB | Turbidity | 7/20/2022 11:08 | 0.6 | NTU |
| GS-AP-MW-3 | COND | Conductivity | 7/20/2022 11:13 | 444.84 | uS/cm |
| GS-AP-MW-3 | DO | DO | 7/20/2022 11:13 | 5.67 | mg/L |
| GS-AP-MW-3 | DTW | Depth to Water Detail | 7/20/2022 11:13 | 149.81 | ft |
| GS-AP-MW-3 | ORP | Oxidation Reduction Potention | 7/20/2022 11:13 | -102.68 | mv |
| GS-AP-MW-3 | PH | pH | 7/20/2022 11:13 | 8.22 | SU |
| GS-AP-MW-3 | TEMP | Temperature | 7/20/2022 11:13 | 19.63 | C |
| GS-AP-MW-3 | TURB | Turbidity | 7/20/2022 11:13 | 0.48 | NTU |
| GS-AP-MW-3 | COND | Conductivity | 7/20/2022 11:18 | 443.48 | uS/cm |
| GS-AP-MW-3 | DO | DO | 7/20/2022 11:18 | 5.54 | mg/L |
| GS-AP-MW-3 | DTW | Depth to Water Detail | 7/20/2022 11:18 | 150.91 | ft |
| GS-AP-MW-3 | ORP | Oxidation Reduction Potention | 7/20/2022 11:18 | -106.03 | mv |
| GS-AP-MW-3 | PH | pH | 7/20/2022 11:18 | 8.27 | SU |
| GS-AP-MW-3 | TEMP | Temperature | 7/20/2022 11:18 | 19.54 | C |
| GS-AP-MW-3 | TURB | Turbidity | 7/20/2022 11:18 | 0.48 | NTU |
| GS-AP-MW-3 | COND | Conductivity | 7/20/2022 11:23 | 445.44 | uS/cm |
| GS-AP-MW-3 | DO | DO | 7/20/2022 11:23 | 0.96 | mg/L |
| GS-AP-MW-3 | DTW | Depth to Water Detail | 7/20/2022 11:23 | 151.19 | ft |
| GS-AP-MW-3 | ORP | Oxidation Reduction Potention | 7/20/2022 11:23 | -95.99 | mv |
| GS-AP-MW-3 | PH | pH | 7/20/2022 11:23 | 8.27 | SU |
| GS-AP-MW-3 | TEMP | Temperature | 7/20/2022 11:23 | 19.69 | C |
| GS-AP-MW-3 | TURB | Turbidity | 7/20/2022 11:23 | 0.61 | NTU |
| GS-AP-MW-3 | COND | Conductivity | 7/20/2022 11:28 | 450.21 | uS/cm |
| GS-AP-MW-3 | DO | DO | 7/20/2022 11:28 | 0.98 | mg/L |
| GS-AP-MW-3 | DTW | Depth to Water Detail | 7/20/2022 11:28 | 151.69 | ft |
| GS-AP-MW-3 | ORP | Oxidation Reduction Potention | 7/20/2022 11:28 | -103.14 | mv |
| GS-AP-MW-3 | PH | pH | 7/20/2022 11:28 | 8.25 | SU |
| GS-AP-MW-3 | TEMP | Temperature | 7/20/2022 11:28 | 20 | C |
| GS-AP-MW-3 | TURB | Turbidity | 7/20/2022 11:28 | 0.5 | NTU |
| GS-AP-MW-3 | COND | Conductivity | 7/20/2022 11:33 | 453.76 | uS/cm |
| GS-AP-MW-3 | DO | DO | 7/20/2022 11:33 | 0.97 | mg/L |
| GS-AP-MW-3 | DTW | Depth to Water Detail | 7/20/2022 11:33 | 152.09 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-3 | ORP | Oxidation Reduction Potention | 7/20/2022 11:33 | -112.78 | mv |
| GS-AP-MW-3 | PH | pH | 7/20/2022 11:33 | 8.25 | SU |
| GS-AP-MW-3 | TEMP | Temperature | 7/20/2022 11:33 | 19.96 | C |
| GS-AP-MW-3 | TURB | Turbidity | 7/20/2022 11:33 | 0.97 | NTU |
| GS-AP-MW-3 | COND | Conductivity | 7/20/2022 11:38 | 461.14 | uS/cm |
| GS-AP-MW-3 | DO | DO | 7/20/2022 11:38 | 0.93 | mg/L |
| GS-AP-MW-3 | DTW | Depth to Water Detail | 7/20/2022 11:38 | 152.29 | ft |
| GS-AP-MW-3 | ORP | Oxidation Reduction Potention | 7/20/2022 11:38 | -126.63 | mv |
| GS-AP-MW-3 | PH | pH | 7/20/2022 11:38 | 8.17 | SU |
| GS-AP-MW-3 | TEMP | Temperature | 7/20/2022 11:38 | 19.66 | C |
| GS-AP-MW-3 | TURB | Turbidity | 7/20/2022 11:38 | 0.63 | NTU |
| GS-AP-MW-3 | COND | Conductivity | 7/20/2022 11:43 | 467.18 | uS/cm |
| GS-AP-MW-3 | DO | DO | 7/20/2022 11:43 | 0.99 | mg/L |
| GS-AP-MW-3 | DTW | Depth to Water Detail | 7/20/2022 11:43 | 152.38 | ft |
| GS-AP-MW-3 | ORP | Oxidation Reduction Potention | 7/20/2022 11:43 | -139.43 | mv |
| GS-AP-MW-3 | PH | pH | 7/20/2022 11:43 | 8.1 | SU |
| GS-AP-MW-3 | SULFIDE | Sulfide | 7/20/2022 11:43 | 0 | mg/L |
| GS-AP-MW-3 | TEMP | Temperature | 7/20/2022 11:43 | 20.22 | C |
| GS-AP-MW-3 | TURB | Turbidity | 7/20/2022 11:43 | 0.6 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 11:48 | 504.1 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 11:48 | 0.21 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 11:48 | 193 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 11:48 | -184.76 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 11:48 | 8.03 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 11:48 | 19.53 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 11:48 | 1.76 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 11:53 | 505.26 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 11:53 | 0.16 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 11:53 | 195.2 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 11:53 | -193.65 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 11:53 | 8.15 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 11:53 | 19.64 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 11:53 | 2.21 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 11:58 | 506.74 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 11:58 | 0.14 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 11:58 | 198.4 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 11:58 | -200.05 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 11:58 | 8.2 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 11:58 | 19.68 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 11:58 | 1.46 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:03 | 504.35 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:03 | 0.13 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:03 | 200.75 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:03 | -207.84 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:03 | 8.27 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:03 | 19.78 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:03 | 1.65 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:08 | 508.28 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:08 | 0.11 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:08 | 203 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:08 | -212.46 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:08 | 8.25 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:08 | 19.87 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:08 | 1.49 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:13 | 507.7 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:13 | 0.13 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:13 | 205.25 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:13 | -218.49 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:13 | 8.29 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:13 | 19.76 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:13 | 2.8 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:18 | 507.16 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:18 | 0.11 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:18 | 207.1 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:18 | -222.37 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:18 | 8.29 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:18 | 19.82 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:18 | 2.64 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:20 | 510.37 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:20 | 0.11 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:20 | 207.1 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:20 | -223.1 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:20 | 8.18 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:20 | 19.7 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:20 | 2.64 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:25 | 512.42 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:25 | 0.11 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:25 | 209.9 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:25 | -228.6 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:25 | 8 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:25 | 19.79 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:25 | 2.84 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:30 | 514.4 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:30 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:30 | 212.21 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:30 | -232.65 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:30 | 8.12 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:30 | 19.88 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:30 | 3.31 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:35 | 515.08 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:35 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:35 | 213.6 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:35 | -234.69 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:35 | 8.35 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:35 | 19.67 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:35 | 5.73 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:40 | 516.99 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:40 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:40 | 215.2 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:40 | -235.89 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:40 | 8.34 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:40 | 19.73 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:40 | 4.29 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:45 | 517.26 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:45 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:45 | 216.85 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:45 | -237.21 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:45 | 8.38 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:45 | 19.76 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:45 | 3.91 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:50 | 516 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:50 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:50 | 217.78 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:50 | -238.89 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:50 | 8.16 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:50 | 19.75 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:50 | 4.17 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 12:55 | 517.51 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 12:55 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 12:55 | 219.25 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 12:55 | -239.83 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 12:55 | 8.22 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 12:55 | 19.73 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 12:55 | 4.94 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:00 | 517.49 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:00 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:00 | 220.2 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:00 | -240.24 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:00 | 8.23 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:00 | 19.85 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:00 | 4.26 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:05 | 518.8 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:05 | 0.2 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:05 | 219.5 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:05 | -219.82 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:05 | 8.28 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:05 | 23.2 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:05 | 4.45 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:10 | 515.73 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:10 | 0.13 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:10 | 218.8 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:10 | -227.24 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:10 | 8.09 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:10 | 20.4 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:10 | 5.16 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:15 | 508.15 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:15 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:15 | 219.08 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:15 | -221 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:15 | 8.26 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:15 | 20.28 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:15 | 8.44 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:20 | 498.16 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:20 | 0.09 | mg/L |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:20 | 219.63 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:20 | -229.59 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:20 | 8.28 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:20 | 19.62 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:20 | 6.3 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:25 | 501.69 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:25 | 0.09 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:25 | 220.3 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:25 | -231.42 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:25 | 8.31 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:25 | 19.43 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:25 | 6.13 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:30 | 508.31 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:30 | 0.09 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:30 | 220.98 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:30 | -235.17 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:30 | 8.44 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:30 | 19.41 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:30 | 4.89 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:35 | 504.17 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:35 | 0.06 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:35 | 223.3 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:35 | -244.16 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:35 | 8.43 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:35 | 18.96 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:35 | 4.68 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:40 | 522.98 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:40 | 0.07 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:40 | 226.7 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:40 | -245.7 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:40 | 8.47 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:40 | 19.09 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:40 | 3.53 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:45 | 524.8 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:45 | 0.05 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:45 | 229.05 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:45 | -245.86 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:45 | 8.46 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:45 | 19.04 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:45 | 3.99 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:50 | 527.38 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:50 | 0.06 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:50 | 231.1 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:50 | -248.32 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:50 | 8.46 | SU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:50 | 19.38 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:50 | 4.07 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 13:55 | 525.54 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 13:55 | 0.09 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 13:55 | 232.35 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 13:55 | -246.5 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 13:55 | 8.5 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 13:55 | 20.23 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 13:55 | 3.43 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 14:00 | 520.72 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 14:00 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 14:00 | 232 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 14:00 | -237.21 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 14:00 | 8.38 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 14:00 | 20.93 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 14:00 | 3.58 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 14:05 | 496.95 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 14:05 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 14:05 | 232 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 14:05 | -239.51 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 14:05 | 8.44 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 14:05 | 20.79 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 14:05 | 4.56 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 14:10 | 494.89 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 14:10 | 0.1 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 14:10 | 231.55 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 14:10 | -224.82 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 14:10 | 8.24 | SU |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 14:10 | 21.27 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 14:10 | 5.42 | NTU |
| GS-AP-MW-01R | COND | Conductivity | 8/2/2022 14:15 | 490 | uS/cm |
| GS-AP-MW-01R | DO | DO | 8/2/2022 14:15 | 0.11 | mg/L |
| GS-AP-MW-01R | DTW | Depth to Water Detail | 8/2/2022 14:15 | 231.55 | ft |
| GS-AP-MW-01R | ORP | Oxidation Reduction Potention | 8/2/2022 14:15 | -233.55 | mv |
| GS-AP-MW-01R | PH | pH | 8/2/2022 14:15 | 8.35 | SU |
| GS-AP-MW-01R | SULFIDE | Sulfide | 8/2/2022 14:15 | 0 | mg/L |
| GS-AP-MW-01R | TEMP | Temperature | 8/2/2022 14:15 | 20.94 | C |
| GS-AP-MW-01R | TURB | Turbidity | 8/2/2022 14:15 | 5.37 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-43H | COND | Conductivity | 8/3/2022 12:37 | 1524.31 | uS/cm |
| GS-AP-MW-43H | DO | DO | 8/3/2022 12:37 | 0.64 | mg/L |
| GS-AP-MW-43H | DTW | Depth to Water Detail | 8/3/2022 12:37 | 156.8 | ft |
| GS-AP-MW-43H | ORP | Oxidation Reduction Potention | 8/3/2022 12:37 | -288.56 | mv |
| GS-AP-MW-43H | PH | pH | 8/3/2022 12:37 | 8.34 | SU |
| GS-AP-MW-43H | TEMP | Temperature | 8/3/2022 12:37 | 19.63 | C |
| GS-AP-MW-43H | TURB | Turbidity | 8/3/2022 12:37 | 4.65 | NTU |
| GS-AP-MW-43H | COND | Conductivity | 8/3/2022 12:42 | 1526.93 | uS/cm |
| GS-AP-MW-43H | DO | DO | 8/3/2022 12:42 | 0.36 | mg/L |
| GS-AP-MW-43H | DTW | Depth to Water Detail | 8/3/2022 12:42 | 157.98 | ft |
| GS-AP-MW-43H | ORP | Oxidation Reduction Potention | 8/3/2022 12:42 | -293.83 | mv |
| GS-AP-MW-43H | PH | pH | 8/3/2022 12:42 | 8.35 | SU |
| GS-AP-MW-43H | TEMP | Temperature | 8/3/2022 12:42 | 19.28 | C |
| GS-AP-MW-43H | TURB | Turbidity | 8/3/2022 12:42 | 2.89 | NTU |
| GS-AP-MW-43H | COND | Conductivity | 8/3/2022 12:47 | 1521.92 | uS/cm |
| GS-AP-MW-43H | DO | DO | 8/3/2022 12:47 | 0.28 | mg/L |
| GS-AP-MW-43H | DTW | Depth to Water Detail | 8/3/2022 12:47 | 159.72 | ft |
| GS-AP-MW-43H | ORP | Oxidation Reduction Potention | 8/3/2022 12:47 | -299.05 | mv |
| GS-AP-MW-43H | PH | pH | 8/3/2022 12:47 | 8.41 | SU |
| GS-AP-MW-43H | TEMP | Temperature | 8/3/2022 12:47 | 19.69 | C |
| GS-AP-MW-43H | TURB | Turbidity | 8/3/2022 12:47 | 2.33 | NTU |
| GS-AP-MW-43H | COND | Conductivity | 8/3/2022 12:52 | 1486.1 | uS/cm |
| GS-AP-MW-43H | DO | DO | 8/3/2022 12:52 | 0.42 | mg/L |
| GS-AP-MW-43H | DTW | Depth to Water Detail | 8/3/2022 12:52 | 159.47 | ft |
| GS-AP-MW-43H | ORP | Oxidation Reduction Potention | 8/3/2022 12:52 | -298.13 | mv |
| GS-AP-MW-43H | PH | pH | 8/3/2022 12:52 | 8.44 | SU |
| GS-AP-MW-43H | TEMP | Temperature | 8/3/2022 12:52 | 21.17 | C |
| GS-AP-MW-43H | TURB | Turbidity | 8/3/2022 12:52 | 2.28 | NTU |
| GS-AP-MW-43H | COND | Conductivity | 8/3/2022 12:57 | 1472.73 | uS/cm |
| GS-AP-MW-43H | DO | DO | 8/3/2022 12:57 | 0.44 | mg/L |
| GS-AP-MW-43H | DTW | Depth to Water Detail | 8/3/2022 12:57 | 158.93 | ft |
| GS-AP-MW-43H | ORP | Oxidation Reduction Potention | 8/3/2022 12:57 | -302.72 | mv |
| GS-AP-MW-43H | PH | pH | 8/3/2022 12:57 | 8.48 | SU |
| GS-AP-MW-43H | TEMP | Temperature | 8/3/2022 12:57 | 21.84 | C |
| GS-AP-MW-43H | TURB | Turbidity | 8/3/2022 12:57 | 2.02 | NTU |
| GS-AP-MW-43H | COND | Conductivity | 8/3/2022 13:02 | 1460.14 | uS/cm |
| GS-AP-MW-43H | DO | DO | 8/3/2022 13:02 | 0.47 | mg/L |
| GS-AP-MW-43H | DTW | Depth to Water Detail | 8/3/2022 13:02 | 158.62 | ft |
| GS-AP-MW-43H | ORP | Oxidation Reduction Potention | 8/3/2022 13:02 | -304.65 | mv |
| GS-AP-MW-43H | PH | pH | 8/3/2022 13:02 | 8.51 | SU |
| GS-AP-MW-43H | SULFIDE | Sulfide | 8/3/2022 13:02 | 10 | mg/L |
| GS-AP-MW-43H | TEMP | Temperature | 8/3/2022 13:02 | 21.71 | C |
| GS-AP-MW-43H | TURB | Turbidity | 8/3/2022 13:02 | 1.92 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:05 | 2311.9 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:05 | 0.3 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:05 | 296.92 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:05 | -147.69 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:05 | 7.81 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:05 | 18.91 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:05 | 2.11 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:10 | 2258.02 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:10 | 0.25 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:10 | 299.9 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:10 | -146.63 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:10 | 7.84 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:10 | 19.06 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:10 | 3.43 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:15 | 2223.75 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:15 | 0.4 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:15 | 301.31 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:15 | -148.17 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:15 | 7.85 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:15 | 19.97 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:15 | 2.21 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:20 | 2184.07 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:20 | 0.55 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:20 | 301.6 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:20 | -144.96 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:20 | 7.86 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:20 | 20.54 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:20 | 2.55 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:25 | 2151.88 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:25 | 0.58 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:25 | 301.92 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:25 | -142.53 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:25 | 7.83 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:25 | 20.7 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:25 | 3.96 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:30 | 2113.29 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:30 | 0.58 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:30 | 302.45 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:30 | -140.81 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:30 | 7.86 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:30 | 20.58 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:30 | 3.02 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:35 | 2007.75 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:35 | 0.29 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:35 | 304 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:35 | -152.1 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:35 | 7.79 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:35 | 19.67 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:35 | 3.65 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:40 | 1865.76 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:40 | 0.23 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:40 | 304.65 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:40 | -166.36 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:40 | 7.86 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:40 | 19.32 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:40 | 2.12 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:45 | 1772.92 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:45 | 0.25 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:45 | 305.92 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:45 | -173.99 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:45 | 7.87 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:45 | 19.29 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:45 | 1.88 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:50 | 1774.4 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:50 | 0.21 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:50 | 307.21 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:50 | -178.62 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:50 | 7.89 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:50 | 19.64 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:50 | 1.69 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 10:55 | 1741.88 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 10:55 | 0.22 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 10:55 | 308.2 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 10:55 | -181.28 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 10:55 | 7.89 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 10:55 | 19.54 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 10:55 | 1.69 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 11:00 | 1696.37 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 11:00 | 0.22 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 11:00 | 309.2 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 11:00 | -183.9 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 11:00 | 7.89 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 11:00 | 19.43 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 11:00 | 2.59 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 11:05 | 1641.09 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 11:05 | 0.22 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 11:05 | 309.75 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 11:05 | -184.33 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 11:05 | 7.89 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 11:05 | 19.28 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 11:05 | 2.92 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 11:10 | 1594.6 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 11:10 | 0.22 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 11:10 | 312.05 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 11:10 | -185.88 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 11:10 | 7.87 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 11:10 | 19.84 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 11:10 | 2.32 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 11:15 | 1583.36 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 11:15 | 0.19 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 11:15 | 312.05 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 11:15 | -189.55 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 11:15 | 7.89 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 11:15 | 19.31 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 11:15 | 2.32 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 11:20 | 1547.24 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 11:20 | 0.19 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 11:20 | 313.05 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 11:20 | -189.44 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 11:20 | 7.87 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 11:20 | 19.1 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 11:20 | 4.48 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 11:25 | 1506.89 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 11:25 | 0.2 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 11:25 | 314.05 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 11:25 | -191.72 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 11:25 | 7.86 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 11:25 | 19.99 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 11:25 | 2.61 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 11:30 | 1502.89 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 11:30 | 0.16 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 11:30 | 314.9 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 11:30 | -194.34 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 11:30 | 7.88 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 11:30 | 19.57 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 11:30 | 1.95 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 11:35 | 1511.97 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 11:35 | 0.35 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 11:35 | 314.65 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 11:35 | -187.5 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 11:35 | 7.92 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 11:35 | 21.31 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 11:35 | 2.57 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 11:40 | 1487.48 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 11:40 | 0.42 | mg/L |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 11:40 | 314.25 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 11:40 | -184.66 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 11:40 | 7.92 | SU |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 11:40 | 21.52 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 11:40 | 2.45 | NTU |
| GS-AP-MW-31V | COND | Conductivity | 8/3/2022 11:45 | 1471.52 | uS/cm |
| GS-AP-MW-31V | DO | DO | 8/3/2022 11:45 | 0.49 | mg/L |
| GS-AP-MW-31V | DTW | Depth to Water Detail | 8/3/2022 11:45 | 313.98 | ft |
| GS-AP-MW-31V | ORP | Oxidation Reduction Potention | 8/3/2022 11:45 | -180.17 | mv |
| GS-AP-MW-31V | PH | pH | 8/3/2022 11:45 | 7.88 | SU |
| GS-AP-MW-31V | SULFIDE | Sulfide | 8/3/2022 11:45 | 0 | mg/L |
| GS-AP-MW-31V | TEMP | Temperature | 8/3/2022 11:45 | 21.68 | C |
| GS-AP-MW-31V | TURB | Turbidity | 8/3/2022 11:45 | 3.29 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 8:16 | 956.27 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 8:16 | 0.28 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 8:16 | 243.05 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potention | 8/3/2022 8:16 | -242.72 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 8:16 | 8.37 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 8:16 | 18.84 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 8:16 | 2.34 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 8:21 | 900.02 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 8:21 | 0.25 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 8:21 | 244.1 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potention | 8/3/2022 8:21 | -253.89 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 8:21 | 8.46 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 8:21 | 18.76 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 8:21 | 2.14 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 8:26 | 855.39 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 8:26 | 0.24 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 8:26 | 245.2 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potention | 8/3/2022 8:26 | -261.4 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 8:26 | 8.49 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 8:26 | 18.93 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 8:26 | 1.52 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 8:31 | 808.97 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 8:31 | 0.19 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 8:31 | 245.81 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potention | 8/3/2022 8:31 | -269.11 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 8:31 | 8.57 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 8:31 | 18.86 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 8:31 | 1.66 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 8:36 | 766.05 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 8:36 | 0.19 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 8:36 | 246.55 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potention | 8/3/2022 8:36 | -272.75 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 8:36 | 8.66 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 8:36 | 18.77 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 8:36 | 2.06 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 8:41 | 734.08 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 8:41 | 0.2 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 8:41 | 247.15 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potention | 8/3/2022 8:41 | -275.18 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 8:41 | 8.71 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 8:41 | 18.93 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 8:41 | 1.8 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 8:46 | 701.71 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 8:46 | 0.17 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 8:46 | 247.65 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-31H | ORP | Oxidation Reduction Potential | 8/3/2022 8:46 | -279.39 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 8:46 | 8.77 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 8:46 | 18.82 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 8:46 | 1.42 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 8:51 | 678.15 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 8:51 | 0.17 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 8:51 | 247.95 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potential | 8/3/2022 8:51 | -278.79 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 8:51 | 8.77 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 8:51 | 18.82 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 8:51 | 3.01 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 8:56 | 652.93 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 8:56 | 0.18 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 8:56 | 248.4 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potential | 8/3/2022 8:56 | -279.86 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 8:56 | 8.78 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 8:56 | 18.74 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 8:56 | 1.25 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 9:01 | 636.65 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 9:01 | 0.17 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 9:01 | 248.5 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potential | 8/3/2022 9:01 | -280.96 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 9:01 | 8.79 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 9:01 | 18.88 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 9:01 | 1.93 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 9:06 | 620.29 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 9:06 | 0.16 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 9:06 | 248.75 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potential | 8/3/2022 9:06 | -282.96 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 9:06 | 8.83 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 9:06 | 18.82 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 9:06 | 1.31 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 9:11 | 589.17 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 9:11 | 0.17 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 9:11 | 248.95 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potential | 8/3/2022 9:11 | -282.09 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 9:11 | 8.83 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 9:11 | 18.83 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 9:11 | 1.23 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 9:16 | 588.44 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 9:16 | 0.18 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 9:16 | 249.1 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potential | 8/3/2022 9:16 | -281.18 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 9:16 | 8.82 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 9:16 | 19.09 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 9:16 | 2.78 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 9:21 | 620.02 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 9:21 | 0.16 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 9:21 | 249.22 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potention | 8/3/2022 9:21 | -284.25 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 9:21 | 8.87 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 9:21 | 18.85 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 9:21 | 2.25 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 9:26 | 625.27 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 9:26 | 0.17 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 9:26 | 249.38 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potention | 8/3/2022 9:26 | -285.4 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 9:26 | 8.88 | SU |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 9:26 | 18.9 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 9:26 | 2.62 | NTU |
| GS-AP-MW-31H | COND | Conductivity | 8/3/2022 9:31 | 620.77 | uS/cm |
| GS-AP-MW-31H | DO | DO | 8/3/2022 9:31 | 0.18 | mg/L |
| GS-AP-MW-31H | DTW | Depth to Water Detail | 8/3/2022 9:31 | 249.5 | ft |
| GS-AP-MW-31H | ORP | Oxidation Reduction Potention | 8/3/2022 9:31 | -283.35 | mv |
| GS-AP-MW-31H | PH | pH | 8/3/2022 9:31 | 8.85 | SU |
| GS-AP-MW-31H | SULFIDE | Sulfide | 8/3/2022 9:31 | 3 | mg/L |
| GS-AP-MW-31H | TEMP | Temperature | 8/3/2022 9:31 | 18.88 | C |
| GS-AP-MW-31H | TURB | Turbidity | 8/3/2022 9:31 | 1.57 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-46 | COND | Conductivity | 8/2/2022 10:54 | 937.4 | uS/cm |
| GS-AP-MW-46 | DO | DO | 8/2/2022 10:54 | 0.26 | mg/L |
| GS-AP-MW-46 | DTW | Depth to Water Detail | 8/2/2022 10:54 | 135.7 | ft |
| GS-AP-MW-46 | ORP | Oxidation Reduction Potention | 8/2/2022 10:54 | -273.89 | mv |
| GS-AP-MW-46 | PH | pH | 8/2/2022 10:54 | 8.58 | SU |
| GS-AP-MW-46 | TEMP | Temperature | 8/2/2022 10:54 | 20.08 | C |
| GS-AP-MW-46 | TURB | Turbidity | 8/2/2022 10:54 | 1.12 | NTU |
| GS-AP-MW-46 | COND | Conductivity | 8/2/2022 10:59 | 942.17 | uS/cm |
| GS-AP-MW-46 | DO | DO | 8/2/2022 10:59 | 0.22 | mg/L |
| GS-AP-MW-46 | DTW | Depth to Water Detail | 8/2/2022 10:59 | 135.75 | ft |
| GS-AP-MW-46 | ORP | Oxidation Reduction Potention | 8/2/2022 10:59 | -284.62 | mv |
| GS-AP-MW-46 | PH | pH | 8/2/2022 10:59 | 8.63 | SU |
| GS-AP-MW-46 | TEMP | Temperature | 8/2/2022 10:59 | 20.34 | C |
| GS-AP-MW-46 | TURB | Turbidity | 8/2/2022 10:59 | 1 | NTU |
| GS-AP-MW-46 | COND | Conductivity | 8/2/2022 11:04 | 945.66 | uS/cm |
| GS-AP-MW-46 | DO | DO | 8/2/2022 11:04 | 0.2 | mg/L |
| GS-AP-MW-46 | DTW | Depth to Water Detail | 8/2/2022 11:04 | 135.75 | ft |
| GS-AP-MW-46 | ORP | Oxidation Reduction Potention | 8/2/2022 11:04 | -292.9 | mv |
| GS-AP-MW-46 | PH | pH | 8/2/2022 11:04 | 8.64 | SU |
| GS-AP-MW-46 | TEMP | Temperature | 8/2/2022 11:04 | 20.08 | C |
| GS-AP-MW-46 | TURB | Turbidity | 8/2/2022 11:04 | 1.44 | NTU |
| GS-AP-MW-46 | COND | Conductivity | 8/2/2022 11:09 | 947.76 | uS/cm |
| GS-AP-MW-46 | DO | DO | 8/2/2022 11:09 | 0.18 | mg/L |
| GS-AP-MW-46 | DTW | Depth to Water Detail | 8/2/2022 11:09 | 135.75 | ft |
| GS-AP-MW-46 | ORP | Oxidation Reduction Potention | 8/2/2022 11:09 | -297.74 | mv |
| GS-AP-MW-46 | PH | pH | 8/2/2022 11:09 | 8.67 | SU |
| GS-AP-MW-46 | SULFIDE | Sulfide | 8/2/2022 11:09 | 6 | mg/L |
| GS-AP-MW-46 | TEMP | Temperature | 8/2/2022 11:09 | 20.11 | C |
| GS-AP-MW-46 | TURB | Turbidity | 8/2/2022 11:09 | 1.14 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 11:41 | 1283.34 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 11:41 | 0.36 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 11:41 | 151.44 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 11:41 | -50.31 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 11:41 | 7.06 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 11:41 | 18.83 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 11:41 | 8.95 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 11:46 | 1286.07 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 11:46 | 0.22 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 11:46 | 153.69 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 11:46 | -63.1 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 11:46 | 6.99 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 11:46 | 18.71 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 11:46 | 3.72 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 11:51 | 1167.43 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 11:51 | 0.23 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 11:51 | 155.78 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 11:51 | -103.7 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 11:51 | 6.98 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 11:51 | 19.03 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 11:51 | 4.52 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 11:56 | 1161.98 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 11:56 | 0.28 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 11:56 | 156.14 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 11:56 | -117.09 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 11:56 | 6.99 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 11:56 | 19.38 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 11:56 | 4.65 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:01 | 1084.98 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:01 | 0.26 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:01 | 156.46 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:01 | -131.86 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:01 | 6.97 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:01 | 19.56 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:01 | 4.21 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:06 | 1024.3 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:06 | 0.25 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:06 | 156.66 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:06 | -141.17 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:06 | 6.95 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:06 | 19.9 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:06 | 3.94 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:11 | 961.97 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:11 | 0.25 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:11 | 156.82 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:11 | -145.24 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:11 | 6.92 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:11 | 20.09 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:11 | 4.01 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:16 | 894.72 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:16 | 0.24 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:16 | 157.02 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:16 | -145.33 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:16 | 6.86 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:16 | 19.8 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:16 | 3.86 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:21 | 831.3 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:21 | 0.23 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:21 | 157.21 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:21 | -147.46 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:21 | 6.85 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:21 | 19.6 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:21 | 3.75 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:26 | 780.44 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:26 | 0.21 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:26 | 157.38 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:26 | -147.41 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:26 | 6.84 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:26 | 19.7 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:26 | 3.98 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:31 | 747.9 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:31 | 0.21 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:31 | 157.56 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:31 | -146.33 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:31 | 6.83 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:31 | 19.76 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:31 | 4.11 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:36 | 709.5 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:36 | 0.2 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:36 | 157.74 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:36 | -145.53 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:36 | 6.81 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:36 | 19.68 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:36 | 4.16 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:41 | 685.66 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:41 | 0.2 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:41 | 157.92 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:41 | -142.41 | mv |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:41 | 6.77 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:41 | 19.62 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:41 | 4.2 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:46 | 667.96 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:46 | 0.2 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:46 | 158.1 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:46 | -142.3 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:46 | 6.77 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:46 | 19.68 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:46 | 4.72 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:51 | 655.43 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:51 | 0.2 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:51 | 158.24 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:51 | -141.99 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:51 | 6.77 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:51 | 19.7 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:51 | 3.78 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 12:56 | 630.07 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 12:56 | 0.18 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 12:56 | 158.41 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 12:56 | -141.52 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 12:56 | 6.76 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 12:56 | 19.51 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 12:56 | 3.63 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 13:01 | 620.21 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 13:01 | 0.18 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 13:01 | 158.59 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 13:01 | -140.74 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 13:01 | 6.74 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 13:01 | 19.48 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 13:01 | 3.33 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 13:06 | 610.32 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 13:06 | 0.19 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 13:06 | 158.74 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 13:06 | -138.71 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 13:06 | 6.71 | SU |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 13:06 | 19.48 | C |
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 13:06 | 3.43 | NTU |
| GS-AP-MW-10R | COND | Conductivity | 8/3/2022 13:11 | 598.76 | uS/cm |
| GS-AP-MW-10R | DO | DO | 8/3/2022 13:11 | 0.18 | mg/L |
| GS-AP-MW-10R | DTW | Depth to Water Detail | 8/3/2022 13:11 | 158.87 | ft |
| GS-AP-MW-10R | ORP | Oxidation Reduction Potention | 8/3/2022 13:11 | -139.2 | mv |
| GS-AP-MW-10R | PH | pH | 8/3/2022 13:11 | 6.7 | SU |
| GS-AP-MW-10R | SULFIDE | Sulfide | 8/3/2022 13:11 | 0 | mg/L |
| GS-AP-MW-10R | TEMP | Temperature | 8/3/2022 13:11 | 19.68 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|--------------------|--------------------|------------------------|--------------|-------------|
| GS-AP-MW-10R | TURB | Turbidity | 8/3/2022 13:11 | 3.21 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-14R | COND | Conductivity | 8/3/2022 7:57 | 530.78 | uS/cm |
| GS-AP-MW-14R | DO | DO | 8/3/2022 7:57 | 0.52 | mg/L |
| GS-AP-MW-14R | DTW | Depth to Water Detail | 8/3/2022 7:57 | 111.56 | ft |
| GS-AP-MW-14R | ORP | Oxidation Reduction Potention | 8/3/2022 7:57 | -80.63 | mv |
| GS-AP-MW-14R | PH | pH | 8/3/2022 7:57 | 6.65 | SU |
| GS-AP-MW-14R | TEMP | Temperature | 8/3/2022 7:57 | 17.6 | C |
| GS-AP-MW-14R | TURB | Turbidity | 8/3/2022 7:57 | 1.45 | NTU |
| GS-AP-MW-14R | COND | Conductivity | 8/3/2022 8:02 | 522.42 | uS/cm |
| GS-AP-MW-14R | DO | DO | 8/3/2022 8:02 | 0.45 | mg/L |
| GS-AP-MW-14R | DTW | Depth to Water Detail | 8/3/2022 8:02 | 113.92 | ft |
| GS-AP-MW-14R | ORP | Oxidation Reduction Potention | 8/3/2022 8:02 | -74.6 | mv |
| GS-AP-MW-14R | PH | pH | 8/3/2022 8:02 | 6.62 | SU |
| GS-AP-MW-14R | TEMP | Temperature | 8/3/2022 8:02 | 17.71 | C |
| GS-AP-MW-14R | TURB | Turbidity | 8/3/2022 8:02 | 1.23 | NTU |
| GS-AP-MW-14R | COND | Conductivity | 8/3/2022 8:07 | 507.24 | uS/cm |
| GS-AP-MW-14R | DO | DO | 8/3/2022 8:07 | 0.42 | mg/L |
| GS-AP-MW-14R | DTW | Depth to Water Detail | 8/3/2022 8:07 | 116.26 | ft |
| GS-AP-MW-14R | ORP | Oxidation Reduction Potention | 8/3/2022 8:07 | -73.96 | mv |
| GS-AP-MW-14R | PH | pH | 8/3/2022 8:07 | 6.56 | SU |
| GS-AP-MW-14R | TEMP | Temperature | 8/3/2022 8:07 | 17.68 | C |
| GS-AP-MW-14R | TURB | Turbidity | 8/3/2022 8:07 | 1.48 | NTU |
| GS-AP-MW-14R | COND | Conductivity | 8/3/2022 8:12 | 498.43 | uS/cm |
| GS-AP-MW-14R | DO | DO | 8/3/2022 8:12 | 1.17 | mg/L |
| GS-AP-MW-14R | DTW | Depth to Water Detail | 8/3/2022 8:12 | 116.71 | ft |
| GS-AP-MW-14R | ORP | Oxidation Reduction Potention | 8/3/2022 8:12 | -66.76 | mv |
| GS-AP-MW-14R | PH | pH | 8/3/2022 8:12 | 6.53 | SU |
| GS-AP-MW-14R | TEMP | Temperature | 8/3/2022 8:12 | 18.62 | C |
| GS-AP-MW-14R | TURB | Turbidity | 8/3/2022 8:12 | 1.72 | NTU |
| GS-AP-MW-14R | COND | Conductivity | 8/3/2022 8:17 | 497.91 | uS/cm |
| GS-AP-MW-14R | DO | DO | 8/3/2022 8:17 | 1.45 | mg/L |
| GS-AP-MW-14R | DTW | Depth to Water Detail | 8/3/2022 8:17 | 116.92 | ft |
| GS-AP-MW-14R | ORP | Oxidation Reduction Potention | 8/3/2022 8:17 | -64.19 | mv |
| GS-AP-MW-14R | PH | pH | 8/3/2022 8:17 | 6.51 | SU |
| GS-AP-MW-14R | TEMP | Temperature | 8/3/2022 8:17 | 18.45 | C |
| GS-AP-MW-14R | TURB | Turbidity | 8/3/2022 8:17 | 1.65 | NTU |
| GS-AP-MW-14R | COND | Conductivity | 8/3/2022 8:22 | 481.65 | uS/cm |
| GS-AP-MW-14R | DO | DO | 8/3/2022 8:22 | 1.31 | mg/L |
| GS-AP-MW-14R | DTW | Depth to Water Detail | 8/3/2022 8:22 | 117.1 | ft |
| GS-AP-MW-14R | ORP | Oxidation Reduction Potention | 8/3/2022 8:22 | -69.13 | mv |
| GS-AP-MW-14R | PH | pH | 8/3/2022 8:22 | 6.47 | SU |
| GS-AP-MW-14R | TEMP | Temperature | 8/3/2022 8:22 | 18.58 | C |
| GS-AP-MW-14R | TURB | Turbidity | 8/3/2022 8:22 | 1.66 | NTU |
| GS-AP-MW-14R | COND | Conductivity | 8/3/2022 8:27 | 487.08 | uS/cm |
| GS-AP-MW-14R | DO | DO | 8/3/2022 8:27 | 1.36 | mg/L |
| GS-AP-MW-14R | DTW | Depth to Water Detail | 8/3/2022 8:27 | 117.26 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-14R | ORP | Oxidation Reduction Potention | 8/3/2022 8:27 | -71.53 | mv |
| GS-AP-MW-14R | PH | pH | 8/3/2022 8:27 | 6.45 | SU |
| GS-AP-MW-14R | TEMP | Temperature | 8/3/2022 8:27 | 18.69 | C |
| GS-AP-MW-14R | TURB | Turbidity | 8/3/2022 8:27 | 1.81 | NTU |
| GS-AP-MW-14R | COND | Conductivity | 8/3/2022 8:32 | 478.01 | uS/cm |
| GS-AP-MW-14R | DO | DO | 8/3/2022 8:32 | 1.28 | mg/L |
| GS-AP-MW-14R | DTW | Depth to Water Detail | 8/3/2022 8:32 | 117.36 | ft |
| GS-AP-MW-14R | ORP | Oxidation Reduction Potention | 8/3/2022 8:32 | -76.12 | mv |
| GS-AP-MW-14R | PH | pH | 8/3/2022 8:32 | 6.44 | SU |
| GS-AP-MW-14R | SULFIDE | Sulfide | 8/3/2022 8:32 | 1 | mg/L |
| GS-AP-MW-14R | TEMP | Temperature | 8/3/2022 8:32 | 18.62 | C |
| GS-AP-MW-14R | TURB | Turbidity | 8/3/2022 8:32 | 1.9 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-15 | COND | Conductivity | 8/2/2022 12:03 | 2031.18 | uS/cm |
| GS-AP-MW-15 | DO | DO | 8/2/2022 12:03 | 0.57 | mg/L |
| GS-AP-MW-15 | DTW | Depth to Water Detail | 8/2/2022 12:03 | 86.61 | ft |
| GS-AP-MW-15 | ORP | Oxidation Reduction Potention | 8/2/2022 12:03 | -274.75 | mv |
| GS-AP-MW-15 | PH | pH | 8/2/2022 12:03 | 12.05 | SU |
| GS-AP-MW-15 | TEMP | Temperature | 8/2/2022 12:03 | 19.19 | C |
| GS-AP-MW-15 | TURB | Turbidity | 8/2/2022 12:03 | 2.39 | NTU |
| GS-AP-MW-15 | COND | Conductivity | 8/2/2022 12:08 | 1988.35 | uS/cm |
| GS-AP-MW-15 | DO | DO | 8/2/2022 12:08 | 0.49 | mg/L |
| GS-AP-MW-15 | DTW | Depth to Water Detail | 8/2/2022 12:08 | 88.44 | ft |
| GS-AP-MW-15 | ORP | Oxidation Reduction Potention | 8/2/2022 12:08 | -277.74 | mv |
| GS-AP-MW-15 | PH | pH | 8/2/2022 12:08 | 12.04 | SU |
| GS-AP-MW-15 | TEMP | Temperature | 8/2/2022 12:08 | 18.93 | C |
| GS-AP-MW-15 | TURB | Turbidity | 8/2/2022 12:08 | 2.5 | NTU |
| GS-AP-MW-15 | COND | Conductivity | 8/2/2022 12:13 | 1953.73 | uS/cm |
| GS-AP-MW-15 | DO | DO | 8/2/2022 12:13 | 0.44 | mg/L |
| GS-AP-MW-15 | DTW | Depth to Water Detail | 8/2/2022 12:13 | 90.2 | ft |
| GS-AP-MW-15 | ORP | Oxidation Reduction Potention | 8/2/2022 12:13 | -279.14 | mv |
| GS-AP-MW-15 | PH | pH | 8/2/2022 12:13 | 12.02 | SU |
| GS-AP-MW-15 | TEMP | Temperature | 8/2/2022 12:13 | 18.85 | C |
| GS-AP-MW-15 | TURB | Turbidity | 8/2/2022 12:13 | 1.86 | NTU |
| GS-AP-MW-15 | COND | Conductivity | 8/2/2022 12:18 | 1878.25 | uS/cm |
| GS-AP-MW-15 | DO | DO | 8/2/2022 12:18 | 0.41 | mg/L |
| GS-AP-MW-15 | DTW | Depth to Water Detail | 8/2/2022 12:18 | 91.8 | ft |
| GS-AP-MW-15 | ORP | Oxidation Reduction Potention | 8/2/2022 12:18 | -280.39 | mv |
| GS-AP-MW-15 | PH | pH | 8/2/2022 12:18 | 11.99 | SU |
| GS-AP-MW-15 | TEMP | Temperature | 8/2/2022 12:18 | 19.21 | C |
| GS-AP-MW-15 | TURB | Turbidity | 8/2/2022 12:18 | 2.02 | NTU |
| GS-AP-MW-15 | COND | Conductivity | 8/2/2022 12:23 | 1903.37 | uS/cm |
| GS-AP-MW-15 | DO | DO | 8/2/2022 12:23 | 0.74 | mg/L |
| GS-AP-MW-15 | DTW | Depth to Water Detail | 8/2/2022 12:23 | 92.19 | ft |
| GS-AP-MW-15 | ORP | Oxidation Reduction Potention | 8/2/2022 12:23 | -268.48 | mv |
| GS-AP-MW-15 | PH | pH | 8/2/2022 12:23 | 11.89 | SU |
| GS-AP-MW-15 | TEMP | Temperature | 8/2/2022 12:23 | 21.61 | C |
| GS-AP-MW-15 | TURB | Turbidity | 8/2/2022 12:23 | 1.94 | NTU |
| GS-AP-MW-15 | COND | Conductivity | 8/2/2022 12:28 | 1921.47 | uS/cm |
| GS-AP-MW-15 | DO | DO | 8/2/2022 12:28 | 0.8 | mg/L |
| GS-AP-MW-15 | DTW | Depth to Water Detail | 8/2/2022 12:28 | 92.38 | ft |
| GS-AP-MW-15 | ORP | Oxidation Reduction Potention | 8/2/2022 12:28 | -266.8 | mv |
| GS-AP-MW-15 | PH | pH | 8/2/2022 12:28 | 11.87 | SU |
| GS-AP-MW-15 | TEMP | Temperature | 8/2/2022 12:28 | 21.6 | C |
| GS-AP-MW-15 | TURB | Turbidity | 8/2/2022 12:28 | 2.12 | NTU |
| GS-AP-MW-15 | COND | Conductivity | 8/2/2022 12:33 | 1907.2 | uS/cm |
| GS-AP-MW-15 | DO | DO | 8/2/2022 12:33 | 0.84 | mg/L |
| GS-AP-MW-15 | DTW | Depth to Water Detail | 8/2/2022 12:33 | 92.52 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-15 | ORP | Oxidation Reduction Potention | 8/2/2022 12:33 | -266.19 | mv |
| GS-AP-MW-15 | PH | pH | 8/2/2022 12:33 | 11.85 | SU |
| GS-AP-MW-15 | TEMP | Temperature | 8/2/2022 12:33 | 21.72 | C |
| GS-AP-MW-15 | TURB | Turbidity | 8/2/2022 12:33 | 2.24 | NTU |
| GS-AP-MW-15 | COND | Conductivity | 8/2/2022 12:38 | 1866.78 | uS/cm |
| GS-AP-MW-15 | DO | DO | 8/2/2022 12:38 | 0.84 | mg/L |
| GS-AP-MW-15 | DTW | Depth to Water Detail | 8/2/2022 12:38 | 92.63 | ft |
| GS-AP-MW-15 | ORP | Oxidation Reduction Potention | 8/2/2022 12:38 | -265.76 | mv |
| GS-AP-MW-15 | PH | pH | 8/2/2022 12:38 | 11.84 | SU |
| GS-AP-MW-15 | SULFIDE | Sulfide | 8/2/2022 12:38 | 1 | mg/L |
| GS-AP-MW-15 | TEMP | Temperature | 8/2/2022 12:38 | 21.49 | C |
| GS-AP-MW-15 | TURB | Turbidity | 8/2/2022 12:38 | 2.3 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-15V | COND | Conductivity | 8/2/2022 13:44 | 1427.71 | uS/cm |
| GS-AP-MW-15V | DO | DO | 8/2/2022 13:44 | 0.73 | mg/L |
| GS-AP-MW-15V | DTW | Depth to Water Detail | 8/2/2022 13:44 | 175.37 | ft |
| GS-AP-MW-15V | ORP | Oxidation Reduction Potention | 8/2/2022 13:44 | -244.02 | mv |
| GS-AP-MW-15V | PH | pH | 8/2/2022 13:44 | 8.69 | SU |
| GS-AP-MW-15V | TEMP | Temperature | 8/2/2022 13:44 | 20.07 | C |
| GS-AP-MW-15V | TURB | Turbidity | 8/2/2022 13:44 | 6.6 | NTU |
| GS-AP-MW-15V | COND | Conductivity | 8/2/2022 13:49 | 1426.79 | uS/cm |
| GS-AP-MW-15V | DO | DO | 8/2/2022 13:49 | 0.63 | mg/L |
| GS-AP-MW-15V | DTW | Depth to Water Detail | 8/2/2022 13:49 | 176.21 | ft |
| GS-AP-MW-15V | ORP | Oxidation Reduction Potention | 8/2/2022 13:49 | -215.3 | mv |
| GS-AP-MW-15V | PH | pH | 8/2/2022 13:49 | 8.39 | SU |
| GS-AP-MW-15V | TEMP | Temperature | 8/2/2022 13:49 | 19.34 | C |
| GS-AP-MW-15V | TURB | Turbidity | 8/2/2022 13:49 | 3.41 | NTU |
| GS-AP-MW-15V | COND | Conductivity | 8/2/2022 13:54 | 1397.26 | uS/cm |
| GS-AP-MW-15V | DO | DO | 8/2/2022 13:54 | 0.84 | mg/L |
| GS-AP-MW-15V | DTW | Depth to Water Detail | 8/2/2022 13:54 | 176.58 | ft |
| GS-AP-MW-15V | ORP | Oxidation Reduction Potention | 8/2/2022 13:54 | -192.42 | mv |
| GS-AP-MW-15V | PH | pH | 8/2/2022 13:54 | 8.28 | SU |
| GS-AP-MW-15V | TEMP | Temperature | 8/2/2022 13:54 | 20.92 | C |
| GS-AP-MW-15V | TURB | Turbidity | 8/2/2022 13:54 | 1.71 | NTU |
| GS-AP-MW-15V | COND | Conductivity | 8/2/2022 13:59 | 1399.55 | uS/cm |
| GS-AP-MW-15V | DO | DO | 8/2/2022 13:59 | 0.87 | mg/L |
| GS-AP-MW-15V | DTW | Depth to Water Detail | 8/2/2022 13:59 | 176.81 | ft |
| GS-AP-MW-15V | ORP | Oxidation Reduction Potention | 8/2/2022 13:59 | -174.89 | mv |
| GS-AP-MW-15V | PH | pH | 8/2/2022 13:59 | 8.21 | SU |
| GS-AP-MW-15V | TEMP | Temperature | 8/2/2022 13:59 | 21.45 | C |
| GS-AP-MW-15V | TURB | Turbidity | 8/2/2022 13:59 | 1.96 | NTU |
| GS-AP-MW-15V | COND | Conductivity | 8/2/2022 14:04 | 1396.87 | uS/cm |
| GS-AP-MW-15V | DO | DO | 8/2/2022 14:04 | 0.85 | mg/L |
| GS-AP-MW-15V | DTW | Depth to Water Detail | 8/2/2022 14:04 | 177.02 | ft |
| GS-AP-MW-15V | ORP | Oxidation Reduction Potention | 8/2/2022 14:04 | -165.01 | mv |
| GS-AP-MW-15V | PH | pH | 8/2/2022 14:04 | 8.22 | SU |
| GS-AP-MW-15V | TEMP | Temperature | 8/2/2022 14:04 | 21.41 | C |
| GS-AP-MW-15V | TURB | Turbidity | 8/2/2022 14:04 | 1.89 | NTU |
| GS-AP-MW-15V | COND | Conductivity | 8/2/2022 14:09 | 1390.46 | uS/cm |
| GS-AP-MW-15V | DO | DO | 8/2/2022 14:09 | 0.82 | mg/L |
| GS-AP-MW-15V | DTW | Depth to Water Detail | 8/2/2022 14:09 | 177.32 | ft |
| GS-AP-MW-15V | ORP | Oxidation Reduction Potention | 8/2/2022 14:09 | -155.18 | mv |
| GS-AP-MW-15V | PH | pH | 8/2/2022 14:09 | 8.2 | SU |
| GS-AP-MW-15V | TEMP | Temperature | 8/2/2022 14:09 | 21.16 | C |
| GS-AP-MW-15V | TURB | Turbidity | 8/2/2022 14:09 | 2.01 | NTU |
| GS-AP-MW-15V | COND | Conductivity | 8/2/2022 14:14 | 1381.83 | uS/cm |
| GS-AP-MW-15V | DO | DO | 8/2/2022 14:14 | 0.92 | mg/L |
| GS-AP-MW-15V | DTW | Depth to Water Detail | 8/2/2022 14:14 | 177.46 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-15V | ORP | Oxidation Reduction Potention | 8/2/2022 14:14 | -149.86 | mv |
| GS-AP-MW-15V | PH | pH | 8/2/2022 14:14 | 8.21 | SU |
| GS-AP-MW-15V | TEMP | Temperature | 8/2/2022 14:14 | 21.76 | C |
| GS-AP-MW-15V | TURB | Turbidity | 8/2/2022 14:14 | 1.09 | NTU |
| GS-AP-MW-15V | COND | Conductivity | 8/2/2022 14:19 | 1392.92 | uS/cm |
| GS-AP-MW-15V | DO | DO | 8/2/2022 14:19 | 0.94 | mg/L |
| GS-AP-MW-15V | DTW | Depth to Water Detail | 8/2/2022 14:19 | 177.57 | ft |
| GS-AP-MW-15V | ORP | Oxidation Reduction Potention | 8/2/2022 14:19 | -144.25 | mv |
| GS-AP-MW-15V | PH | pH | 8/2/2022 14:19 | 8.21 | SU |
| GS-AP-MW-15V | SULFIDE | Sulfide | 8/2/2022 14:19 | 0 | mg/L |
| GS-AP-MW-15V | TEMP | Temperature | 8/2/2022 14:19 | 22.46 | C |
| GS-AP-MW-15V | TURB | Turbidity | 8/2/2022 14:19 | 1.45 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-16D | COND | Conductivity | 8/2/2022 9:05 | 430.84 | uS/cm |
| GS-AP-MW-16D | DO | DO | 8/2/2022 9:05 | 3.86 | mg/L |
| GS-AP-MW-16D | DTW | Depth to Water Detail | 8/2/2022 9:05 | 155.71 | ft |
| GS-AP-MW-16D | ORP | Oxidation Reduction Potention | 8/2/2022 9:05 | -25.92 | mv |
| GS-AP-MW-16D | PH | pH | 8/2/2022 9:05 | 7.11 | SU |
| GS-AP-MW-16D | TEMP | Temperature | 8/2/2022 9:05 | 20.67 | C |
| GS-AP-MW-16D | TURB | Turbidity | 8/2/2022 9:05 | 4.07 | NTU |
| GS-AP-MW-16D | COND | Conductivity | 8/2/2022 9:10 | 431.33 | uS/cm |
| GS-AP-MW-16D | DO | DO | 8/2/2022 9:10 | 1.72 | mg/L |
| GS-AP-MW-16D | DTW | Depth to Water Detail | 8/2/2022 9:10 | 156.14 | ft |
| GS-AP-MW-16D | ORP | Oxidation Reduction Potention | 8/2/2022 9:10 | -67.15 | mv |
| GS-AP-MW-16D | PH | pH | 8/2/2022 9:10 | 7.4 | SU |
| GS-AP-MW-16D | TEMP | Temperature | 8/2/2022 9:10 | 20.32 | C |
| GS-AP-MW-16D | TURB | Turbidity | 8/2/2022 9:10 | 4.66 | NTU |
| GS-AP-MW-16D | COND | Conductivity | 8/2/2022 9:15 | 427.14 | uS/cm |
| GS-AP-MW-16D | DO | DO | 8/2/2022 9:15 | 1.29 | mg/L |
| GS-AP-MW-16D | DTW | Depth to Water Detail | 8/2/2022 9:15 | 156.6 | ft |
| GS-AP-MW-16D | ORP | Oxidation Reduction Potention | 8/2/2022 9:15 | -79.4 | mv |
| GS-AP-MW-16D | PH | pH | 8/2/2022 9:15 | 7.47 | SU |
| GS-AP-MW-16D | TEMP | Temperature | 8/2/2022 9:15 | 20.41 | C |
| GS-AP-MW-16D | TURB | Turbidity | 8/2/2022 9:15 | 5.25 | NTU |
| GS-AP-MW-16D | COND | Conductivity | 8/2/2022 9:20 | 423.28 | uS/cm |
| GS-AP-MW-16D | DO | DO | 8/2/2022 9:20 | 1.14 | mg/L |
| GS-AP-MW-16D | DTW | Depth to Water Detail | 8/2/2022 9:20 | 157 | ft |
| GS-AP-MW-16D | ORP | Oxidation Reduction Potention | 8/2/2022 9:20 | -83.85 | mv |
| GS-AP-MW-16D | PH | pH | 8/2/2022 9:20 | 7.49 | SU |
| GS-AP-MW-16D | TEMP | Temperature | 8/2/2022 9:20 | 20.46 | C |
| GS-AP-MW-16D | TURB | Turbidity | 8/2/2022 9:20 | 4.84 | NTU |
| GS-AP-MW-16D | COND | Conductivity | 8/2/2022 9:25 | 421.25 | uS/cm |
| GS-AP-MW-16D | DO | DO | 8/2/2022 9:25 | 1.07 | mg/L |
| GS-AP-MW-16D | DTW | Depth to Water Detail | 8/2/2022 9:25 | 157.28 | ft |
| GS-AP-MW-16D | ORP | Oxidation Reduction Potention | 8/2/2022 9:25 | -85.61 | mv |
| GS-AP-MW-16D | PH | pH | 8/2/2022 9:25 | 7.49 | SU |
| GS-AP-MW-16D | TEMP | Temperature | 8/2/2022 9:25 | 20.57 | C |
| GS-AP-MW-16D | TURB | Turbidity | 8/2/2022 9:25 | 4.76 | NTU |
| GS-AP-MW-16D | COND | Conductivity | 8/2/2022 9:30 | 420.42 | uS/cm |
| GS-AP-MW-16D | DO | DO | 8/2/2022 9:30 | 1.03 | mg/L |
| GS-AP-MW-16D | DTW | Depth to Water Detail | 8/2/2022 9:30 | 157.5 | ft |
| GS-AP-MW-16D | ORP | Oxidation Reduction Potention | 8/2/2022 9:30 | -87 | mv |
| GS-AP-MW-16D | PH | pH | 8/2/2022 9:30 | 7.46 | SU |
| GS-AP-MW-16D | TEMP | Temperature | 8/2/2022 9:30 | 20.77 | C |
| GS-AP-MW-16D | TURB | Turbidity | 8/2/2022 9:30 | 4.62 | NTU |
| GS-AP-MW-16D | COND | Conductivity | 8/2/2022 9:35 | 416.23 | uS/cm |
| GS-AP-MW-16D | DO | DO | 8/2/2022 9:35 | 1.01 | mg/L |
| GS-AP-MW-16D | DTW | Depth to Water Detail | 8/2/2022 9:35 | 157.74 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-16D | ORP | Oxidation Reduction Potention | 8/2/2022 9:35 | -89.5 | mv |
| GS-AP-MW-16D | PH | pH | 8/2/2022 9:35 | 7.48 | SU |
| GS-AP-MW-16D | TEMP | Temperature | 8/2/2022 9:35 | 20.8 | C |
| GS-AP-MW-16D | TURB | Turbidity | 8/2/2022 9:35 | 4.12 | NTU |
| GS-AP-MW-16D | COND | Conductivity | 8/2/2022 9:40 | 411.99 | uS/cm |
| GS-AP-MW-16D | DO | DO | 8/2/2022 9:40 | 0.98 | mg/L |
| GS-AP-MW-16D | DTW | Depth to Water Detail | 8/2/2022 9:40 | 157.88 | ft |
| GS-AP-MW-16D | ORP | Oxidation Reduction Potention | 8/2/2022 9:40 | -90.38 | mv |
| GS-AP-MW-16D | PH | pH | 8/2/2022 9:40 | 7.49 | SU |
| GS-AP-MW-16D | TEMP | Temperature | 8/2/2022 9:40 | 20.97 | C |
| GS-AP-MW-16D | TURB | Turbidity | 8/2/2022 9:40 | 3.94 | NTU |
| GS-AP-MW-16D | COND | Conductivity | 8/2/2022 9:45 | 414.33 | uS/cm |
| GS-AP-MW-16D | DO | DO | 8/2/2022 9:45 | 0.96 | mg/L |
| GS-AP-MW-16D | DTW | Depth to Water Detail | 8/2/2022 9:45 | 157.97 | ft |
| GS-AP-MW-16D | ORP | Oxidation Reduction Potention | 8/2/2022 9:45 | -89.6 | mv |
| GS-AP-MW-16D | PH | pH | 8/2/2022 9:45 | 7.49 | SU |
| GS-AP-MW-16D | SULFIDE | Sulfide | 8/2/2022 9:45 | 0 | mg/L |
| GS-AP-MW-16D | TEMP | Temperature | 8/2/2022 9:45 | 20.8 | C |
| GS-AP-MW-16D | TURB | Turbidity | 8/2/2022 9:45 | 4.4 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-16S | COND | Conductivity | 8/2/2022 10:39 | 3454.05 | uS/cm |
| GS-AP-MW-16S | DO | DO | 8/2/2022 10:39 | 3.35 | mg/L |
| GS-AP-MW-16S | DTW | Depth to Water Detail | 8/2/2022 10:39 | 60.45 | ft |
| GS-AP-MW-16S | ORP | Oxidation Reduction Potention | 8/2/2022 10:39 | -140.89 | mv |
| GS-AP-MW-16S | PH | pH | 8/2/2022 10:39 | 12.39 | SU |
| GS-AP-MW-16S | TEMP | Temperature | 8/2/2022 10:39 | 19.78 | C |
| GS-AP-MW-16S | TURB | Turbidity | 8/2/2022 10:39 | 9.8 | NTU |
| GS-AP-MW-16S | COND | Conductivity | 8/2/2022 10:44 | 3456.52 | uS/cm |
| GS-AP-MW-16S | DO | DO | 8/2/2022 10:44 | 3.38 | mg/L |
| GS-AP-MW-16S | DTW | Depth to Water Detail | 8/2/2022 10:44 | 60.75 | ft |
| GS-AP-MW-16S | ORP | Oxidation Reduction Potention | 8/2/2022 10:44 | -154.13 | mv |
| GS-AP-MW-16S | PH | pH | 8/2/2022 10:44 | 12.5 | SU |
| GS-AP-MW-16S | TEMP | Temperature | 8/2/2022 10:44 | 19.96 | C |
| GS-AP-MW-16S | TURB | Turbidity | 8/2/2022 10:44 | 7.61 | NTU |
| GS-AP-MW-16S | COND | Conductivity | 8/2/2022 10:49 | 3455.04 | uS/cm |
| GS-AP-MW-16S | DO | DO | 8/2/2022 10:49 | 3.38 | mg/L |
| GS-AP-MW-16S | DTW | Depth to Water Detail | 8/2/2022 10:49 | 60.82 | ft |
| GS-AP-MW-16S | ORP | Oxidation Reduction Potention | 8/2/2022 10:49 | -159.74 | mv |
| GS-AP-MW-16S | PH | pH | 8/2/2022 10:49 | 12.54 | SU |
| GS-AP-MW-16S | TEMP | Temperature | 8/2/2022 10:49 | 20.02 | C |
| GS-AP-MW-16S | TURB | Turbidity | 8/2/2022 10:49 | 4.21 | NTU |
| GS-AP-MW-16S | COND | Conductivity | 8/2/2022 10:54 | 3393 | uS/cm |
| GS-AP-MW-16S | DO | DO | 8/2/2022 10:54 | 3.29 | mg/L |
| GS-AP-MW-16S | DTW | Depth to Water Detail | 8/2/2022 10:54 | 60.89 | ft |
| GS-AP-MW-16S | ORP | Oxidation Reduction Potention | 8/2/2022 10:54 | -161.36 | mv |
| GS-AP-MW-16S | PH | pH | 8/2/2022 10:54 | 12.53 | SU |
| GS-AP-MW-16S | SULFIDE | Sulfide | 8/2/2022 10:54 | 0 | mg/L |
| GS-AP-MW-16S | TEMP | Temperature | 8/2/2022 10:54 | 20.16 | C |
| GS-AP-MW-16S | TURB | Turbidity | 8/2/2022 10:54 | 4.16 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-25HA | COND | Conductivity | 8/3/2022 9:35 | 1412.89 | uS/cm |
| GS-AP-MW-25HA | DO | DO | 8/3/2022 9:35 | 3.18 | mg/L |
| GS-AP-MW-25HA | DTW | Depth to Water Detail | 8/3/2022 9:35 | 176.81 | ft |
| GS-AP-MW-25HA | ORP | Oxidation Reduction Potention | 8/3/2022 9:35 | -131.1 | mv |
| GS-AP-MW-25HA | PH | pH | 8/3/2022 9:35 | 7.19 | SU |
| GS-AP-MW-25HA | TEMP | Temperature | 8/3/2022 9:35 | 21.55 | C |
| GS-AP-MW-25HA | TURB | Turbidity | 8/3/2022 9:35 | 6.21 | NTU |
| GS-AP-MW-25HA | COND | Conductivity | 8/3/2022 9:40 | 1390.52 | uS/cm |
| GS-AP-MW-25HA | DO | DO | 8/3/2022 9:40 | 1.38 | mg/L |
| GS-AP-MW-25HA | DTW | Depth to Water Detail | 8/3/2022 9:40 | 177.1 | ft |
| GS-AP-MW-25HA | ORP | Oxidation Reduction Potention | 8/3/2022 9:40 | -247.68 | mv |
| GS-AP-MW-25HA | PH | pH | 8/3/2022 9:40 | 7.67 | SU |
| GS-AP-MW-25HA | TEMP | Temperature | 8/3/2022 9:40 | 21.47 | C |
| GS-AP-MW-25HA | TURB | Turbidity | 8/3/2022 9:40 | 5.01 | NTU |
| GS-AP-MW-25HA | COND | Conductivity | 8/3/2022 9:45 | 1390.43 | uS/cm |
| GS-AP-MW-25HA | DO | DO | 8/3/2022 9:45 | 1.07 | mg/L |
| GS-AP-MW-25HA | DTW | Depth to Water Detail | 8/3/2022 9:45 | 177.36 | ft |
| GS-AP-MW-25HA | ORP | Oxidation Reduction Potention | 8/3/2022 9:45 | -268.22 | mv |
| GS-AP-MW-25HA | PH | pH | 8/3/2022 9:45 | 7.89 | SU |
| GS-AP-MW-25HA | TEMP | Temperature | 8/3/2022 9:45 | 21.29 | C |
| GS-AP-MW-25HA | TURB | Turbidity | 8/3/2022 9:45 | 5.36 | NTU |
| GS-AP-MW-25HA | COND | Conductivity | 8/3/2022 9:50 | 1385.2 | uS/cm |
| GS-AP-MW-25HA | DO | DO | 8/3/2022 9:50 | 0.87 | mg/L |
| GS-AP-MW-25HA | DTW | Depth to Water Detail | 8/3/2022 9:50 | 177.59 | ft |
| GS-AP-MW-25HA | ORP | Oxidation Reduction Potention | 8/3/2022 9:50 | -278.81 | mv |
| GS-AP-MW-25HA | PH | pH | 8/3/2022 9:50 | 8.01 | SU |
| GS-AP-MW-25HA | TEMP | Temperature | 8/3/2022 9:50 | 21.21 | C |
| GS-AP-MW-25HA | TURB | Turbidity | 8/3/2022 9:50 | 5.12 | NTU |
| GS-AP-MW-25HA | COND | Conductivity | 8/3/2022 9:55 | 1417.64 | uS/cm |
| GS-AP-MW-25HA | DO | DO | 8/3/2022 9:55 | 0.68 | mg/L |
| GS-AP-MW-25HA | DTW | Depth to Water Detail | 8/3/2022 9:55 | 177.8 | ft |
| GS-AP-MW-25HA | ORP | Oxidation Reduction Potention | 8/3/2022 9:55 | -279.84 | mv |
| GS-AP-MW-25HA | PH | pH | 8/3/2022 9:55 | 8.24 | SU |
| GS-AP-MW-25HA | TEMP | Temperature | 8/3/2022 9:55 | 20.97 | C |
| GS-AP-MW-25HA | TURB | Turbidity | 8/3/2022 9:55 | 5.44 | NTU |
| GS-AP-MW-25HA | COND | Conductivity | 8/3/2022 10:00 | 1403.16 | uS/cm |
| GS-AP-MW-25HA | DO | DO | 8/3/2022 10:00 | 0.59 | mg/L |
| GS-AP-MW-25HA | DTW | Depth to Water Detail | 8/3/2022 10:00 | 178.02 | ft |
| GS-AP-MW-25HA | ORP | Oxidation Reduction Potention | 8/3/2022 10:00 | -277.33 | mv |
| GS-AP-MW-25HA | PH | pH | 8/3/2022 10:00 | 8.39 | SU |
| GS-AP-MW-25HA | TEMP | Temperature | 8/3/2022 10:00 | 21.05 | C |
| GS-AP-MW-25HA | TURB | Turbidity | 8/3/2022 10:00 | 6.32 | NTU |
| GS-AP-MW-25HA | COND | Conductivity | 8/3/2022 10:05 | 1429.16 | uS/cm |
| GS-AP-MW-25HA | DO | DO | 8/3/2022 10:05 | 0.62 | mg/L |
| GS-AP-MW-25HA | DTW | Depth to Water Detail | 8/3/2022 10:05 | 178.1 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-25HA | ORP | Oxidation Reduction Potention | 8/3/2022 10:05 | -272.6 | mv |
| GS-AP-MW-25HA | PH | pH | 8/3/2022 10:05 | 8.48 | SU |
| GS-AP-MW-25HA | TEMP | Temperature | 8/3/2022 10:05 | 20.91 | C |
| GS-AP-MW-25HA | TURB | Turbidity | 8/3/2022 10:05 | 5.12 | NTU |
| GS-AP-MW-25HA | COND | Conductivity | 8/3/2022 10:10 | 1404.06 | uS/cm |
| GS-AP-MW-25HA | DO | DO | 8/3/2022 10:10 | 0.66 | mg/L |
| GS-AP-MW-25HA | DTW | Depth to Water Detail | 8/3/2022 10:10 | 178.16 | ft |
| GS-AP-MW-25HA | ORP | Oxidation Reduction Potention | 8/3/2022 10:10 | -268.18 | mv |
| GS-AP-MW-25HA | PH | pH | 8/3/2022 10:10 | 8.52 | SU |
| GS-AP-MW-25HA | TEMP | Temperature | 8/3/2022 10:10 | 20.98 | C |
| GS-AP-MW-25HA | TURB | Turbidity | 8/3/2022 10:10 | 6.3 | NTU |
| GS-AP-MW-25HA | COND | Conductivity | 8/3/2022 10:15 | 1426.78 | uS/cm |
| GS-AP-MW-25HA | DO | DO | 8/3/2022 10:15 | 0.65 | mg/L |
| GS-AP-MW-25HA | DTW | Depth to Water Detail | 8/3/2022 10:15 | 178.21 | ft |
| GS-AP-MW-25HA | ORP | Oxidation Reduction Potention | 8/3/2022 10:15 | -265.39 | mv |
| GS-AP-MW-25HA | PH | pH | 8/3/2022 10:15 | 8.55 | SU |
| GS-AP-MW-25HA | SULFIDE | Sulfide | 8/3/2022 10:15 | 2 | mg/L |
| GS-AP-MW-25HA | TEMP | Temperature | 8/3/2022 10:15 | 20.96 | C |
| GS-AP-MW-25HA | TURB | Turbidity | 8/3/2022 10:15 | 6.26 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-30HA | COND | Conductivity | 8/3/2022 14:29 | 1179.32 | uS/cm |
| GS-AP-MW-30HA | DO | DO | 8/3/2022 14:29 | 7.38 | mg/L |
| GS-AP-MW-30HA | DTW | Depth to Water Detail | 8/3/2022 14:29 | 331.13 | ft |
| GS-AP-MW-30HA | ORP | Oxidation Reduction Potention | 8/3/2022 14:29 | 19.33 | mv |
| GS-AP-MW-30HA | PH | pH | 8/3/2022 14:29 | 7.47 | SU |
| GS-AP-MW-30HA | TEMP | Temperature | 8/3/2022 14:29 | 29.72 | C |
| GS-AP-MW-30HA | TURB | Turbidity | 8/3/2022 14:29 | 13.4 | NTU |
| GS-AP-MW-30HA | COND | Conductivity | 8/3/2022 14:34 | 1119.99 | uS/cm |
| GS-AP-MW-30HA | DO | DO | 8/3/2022 14:34 | 6.01 | mg/L |
| GS-AP-MW-30HA | DTW | Depth to Water Detail | 8/3/2022 14:34 | 331.13 | ft |
| GS-AP-MW-30HA | ORP | Oxidation Reduction Potention | 8/3/2022 14:34 | 40.21 | mv |
| GS-AP-MW-30HA | PH | pH | 8/3/2022 14:34 | 7.21 | SU |
| GS-AP-MW-30HA | TEMP | Temperature | 8/3/2022 14:34 | 23.52 | C |
| GS-AP-MW-30HA | TURB | Turbidity | 8/3/2022 14:34 | 18.92 | NTU |
| GS-AP-MW-30HA | COND | Conductivity | 8/3/2022 14:39 | 1115.44 | uS/cm |
| GS-AP-MW-30HA | DO | DO | 8/3/2022 14:39 | 4.08 | mg/L |
| GS-AP-MW-30HA | DTW | Depth to Water Detail | 8/3/2022 14:39 | 331.13 | ft |
| GS-AP-MW-30HA | ORP | Oxidation Reduction Potention | 8/3/2022 14:39 | 41.45 | mv |
| GS-AP-MW-30HA | PH | pH | 8/3/2022 14:39 | 7.03 | SU |
| GS-AP-MW-30HA | TEMP | Temperature | 8/3/2022 14:39 | 22.65 | C |
| GS-AP-MW-30HA | TURB | Turbidity | 8/3/2022 14:39 | 13.3 | NTU |
| GS-AP-MW-30HA | COND | Conductivity | 8/3/2022 14:44 | 1120.51 | uS/cm |
| GS-AP-MW-30HA | DO | DO | 8/3/2022 14:44 | 2.23 | mg/L |
| GS-AP-MW-30HA | DTW | Depth to Water Detail | 8/3/2022 14:44 | 331.13 | ft |
| GS-AP-MW-30HA | ORP | Oxidation Reduction Potention | 8/3/2022 14:44 | -44.15 | mv |
| GS-AP-MW-30HA | PH | pH | 8/3/2022 14:44 | 6.94 | SU |
| GS-AP-MW-30HA | TEMP | Temperature | 8/3/2022 14:44 | 22.16 | C |
| GS-AP-MW-30HA | TURB | Turbidity | 8/3/2022 14:44 | 15.2 | NTU |
| GS-AP-MW-30HA | COND | Conductivity | 8/3/2022 14:49 | 1137.38 | uS/cm |
| GS-AP-MW-30HA | DO | DO | 8/3/2022 14:49 | 1.26 | mg/L |
| GS-AP-MW-30HA | DTW | Depth to Water Detail | 8/3/2022 14:49 | 331.13 | ft |
| GS-AP-MW-30HA | ORP | Oxidation Reduction Potention | 8/3/2022 14:49 | -123.32 | mv |
| GS-AP-MW-30HA | PH | pH | 8/3/2022 14:49 | 6.98 | SU |
| GS-AP-MW-30HA | TEMP | Temperature | 8/3/2022 14:49 | 23.42 | C |
| GS-AP-MW-30HA | TURB | Turbidity | 8/3/2022 14:49 | 10.68 | NTU |
| GS-AP-MW-30HA | COND | Conductivity | 8/3/2022 14:54 | 1141.3 | uS/cm |
| GS-AP-MW-30HA | DO | DO | 8/3/2022 14:54 | 0.79 | mg/L |
| GS-AP-MW-30HA | DTW | Depth to Water Detail | 8/3/2022 14:54 | 331.13 | ft |
| GS-AP-MW-30HA | ORP | Oxidation Reduction Potention | 8/3/2022 14:54 | -147.21 | mv |
| GS-AP-MW-30HA | PH | pH | 8/3/2022 14:54 | 7.1 | SU |
| GS-AP-MW-30HA | TEMP | Temperature | 8/3/2022 14:54 | 22.58 | C |
| GS-AP-MW-30HA | TURB | Turbidity | 8/3/2022 14:54 | 5.5 | NTU |
| GS-AP-MW-30HA | COND | Conductivity | 8/3/2022 14:59 | 1149.99 | uS/cm |
| GS-AP-MW-30HA | DO | DO | 8/3/2022 14:59 | 0.64 | mg/L |
| GS-AP-MW-30HA | DTW | Depth to Water Detail | 8/3/2022 14:59 | 331.13 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-30HA | ORP | Oxidation Reduction Potention | 8/3/2022 14:59 | -145.3 | mv |
| GS-AP-MW-30HA | PH | pH | 8/3/2022 14:59 | 7.17 | SU |
| GS-AP-MW-30HA | TEMP | Temperature | 8/3/2022 14:59 | 22.59 | C |
| GS-AP-MW-30HA | TURB | Turbidity | 8/3/2022 14:59 | 7.44 | NTU |
| GS-AP-MW-30HA | COND | Conductivity | 8/3/2022 15:04 | 1176.72 | uS/cm |
| GS-AP-MW-30HA | DO | DO | 8/3/2022 15:04 | 0.58 | mg/L |
| GS-AP-MW-30HA | DTW | Depth to Water Detail | 8/3/2022 15:04 | 331.13 | ft |
| GS-AP-MW-30HA | ORP | Oxidation Reduction Potention | 8/3/2022 15:04 | -137.17 | mv |
| GS-AP-MW-30HA | PH | pH | 8/3/2022 15:04 | 7.15 | SU |
| GS-AP-MW-30HA | TEMP | Temperature | 8/3/2022 15:04 | 21.94 | C |
| GS-AP-MW-30HA | TURB | Turbidity | 8/3/2022 15:04 | 6.61 | NTU |
| GS-AP-MW-30HA | COND | Conductivity | 8/3/2022 15:09 | 1192.68 | uS/cm |
| GS-AP-MW-30HA | DO | DO | 8/3/2022 15:09 | 0.54 | mg/L |
| GS-AP-MW-30HA | DTW | Depth to Water Detail | 8/3/2022 15:09 | 331.13 | ft |
| GS-AP-MW-30HA | ORP | Oxidation Reduction Potention | 8/3/2022 15:09 | -133.86 | mv |
| GS-AP-MW-30HA | PH | pH | 8/3/2022 15:09 | 7.18 | SU |
| GS-AP-MW-30HA | TEMP | Temperature | 8/3/2022 15:09 | 22.43 | C |
| GS-AP-MW-30HA | TURB | Turbidity | 8/3/2022 15:09 | 5.23 | NTU |
| GS-AP-MW-30HA | COND | Conductivity | 8/3/2022 15:14 | 1198.72 | uS/cm |
| GS-AP-MW-30HA | DO | DO | 8/3/2022 15:14 | 0.47 | mg/L |
| GS-AP-MW-30HA | DTW | Depth to Water Detail | 8/3/2022 15:14 | 331.13 | ft |
| GS-AP-MW-30HA | ORP | Oxidation Reduction Potention | 8/3/2022 15:14 | -134.12 | mv |
| GS-AP-MW-30HA | PH | pH | 8/3/2022 15:14 | 7.17 | SU |
| GS-AP-MW-30HA | SULFIDE | Sulfide | 8/3/2022 15:14 | 0 | mg/L |
| GS-AP-MW-30HA | TEMP | Temperature | 8/3/2022 15:14 | 21.91 | C |
| GS-AP-MW-30HA | TURB | Turbidity | 8/3/2022 15:14 | 4.82 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-17 | COND | Conductivity | 8/8/2022 14:12 | 942.22 | uS/cm |
| GS-AP-MW-17 | DO | DO | 8/8/2022 14:12 | 0.59 | mg/L |
| GS-AP-MW-17 | DTW | Depth to Water Detail | 8/8/2022 14:12 | 182.96 | ft |
| GS-AP-MW-17 | ORP | Oxidation Reduction Potention | 8/8/2022 14:12 | -167.18 | mv |
| GS-AP-MW-17 | PH | pH | 8/8/2022 14:12 | 8.18 | SU |
| GS-AP-MW-17 | TEMP | Temperature | 8/8/2022 14:12 | 19.08 | C |
| GS-AP-MW-17 | TURB | Turbidity | 8/8/2022 14:12 | 1.78 | NTU |
| GS-AP-MW-17 | COND | Conductivity | 8/8/2022 14:17 | 871.65 | uS/cm |
| GS-AP-MW-17 | DO | DO | 8/8/2022 14:17 | 0.4 | mg/L |
| GS-AP-MW-17 | DTW | Depth to Water Detail | 8/8/2022 14:17 | 182.96 | ft |
| GS-AP-MW-17 | ORP | Oxidation Reduction Potention | 8/8/2022 14:17 | -179.45 | mv |
| GS-AP-MW-17 | PH | pH | 8/8/2022 14:17 | 8.3 | SU |
| GS-AP-MW-17 | TEMP | Temperature | 8/8/2022 14:17 | 18.98 | C |
| GS-AP-MW-17 | TURB | Turbidity | 8/8/2022 14:17 | 1.53 | NTU |
| GS-AP-MW-17 | COND | Conductivity | 8/8/2022 14:22 | 803.95 | uS/cm |
| GS-AP-MW-17 | DO | DO | 8/8/2022 14:22 | 0.36 | mg/L |
| GS-AP-MW-17 | DTW | Depth to Water Detail | 8/8/2022 14:22 | 182.96 | ft |
| GS-AP-MW-17 | ORP | Oxidation Reduction Potention | 8/8/2022 14:22 | -175.82 | mv |
| GS-AP-MW-17 | PH | pH | 8/8/2022 14:22 | 8.27 | SU |
| GS-AP-MW-17 | TEMP | Temperature | 8/8/2022 14:22 | 19.24 | C |
| GS-AP-MW-17 | TURB | Turbidity | 8/8/2022 14:22 | 1.49 | NTU |
| GS-AP-MW-17 | COND | Conductivity | 8/8/2022 14:27 | 762.78 | uS/cm |
| GS-AP-MW-17 | DO | DO | 8/8/2022 14:27 | 0.31 | mg/L |
| GS-AP-MW-17 | DTW | Depth to Water Detail | 8/8/2022 14:27 | 182.96 | ft |
| GS-AP-MW-17 | ORP | Oxidation Reduction Potention | 8/8/2022 14:27 | -182.02 | mv |
| GS-AP-MW-17 | PH | pH | 8/8/2022 14:27 | 8.39 | SU |
| GS-AP-MW-17 | TEMP | Temperature | 8/8/2022 14:27 | 18.89 | C |
| GS-AP-MW-17 | TURB | Turbidity | 8/8/2022 14:27 | 1.56 | NTU |
| GS-AP-MW-17 | COND | Conductivity | 8/8/2022 14:32 | 757.29 | uS/cm |
| GS-AP-MW-17 | DO | DO | 8/8/2022 14:32 | 0.3 | mg/L |
| GS-AP-MW-17 | DTW | Depth to Water Detail | 8/8/2022 14:32 | 182.96 | ft |
| GS-AP-MW-17 | ORP | Oxidation Reduction Potention | 8/8/2022 14:32 | -175.51 | mv |
| GS-AP-MW-17 | PH | pH | 8/8/2022 14:32 | 8.27 | SU |
| GS-AP-MW-17 | TEMP | Temperature | 8/8/2022 14:32 | 19.21 | C |
| GS-AP-MW-17 | TURB | Turbidity | 8/8/2022 14:32 | 1.5 | NTU |
| GS-AP-MW-17 | COND | Conductivity | 8/8/2022 14:37 | 750.33 | uS/cm |
| GS-AP-MW-17 | DO | DO | 8/8/2022 14:37 | 0.27 | mg/L |
| GS-AP-MW-17 | DTW | Depth to Water Detail | 8/8/2022 14:37 | 182.96 | ft |
| GS-AP-MW-17 | ORP | Oxidation Reduction Potention | 8/8/2022 14:37 | -182.82 | mv |
| GS-AP-MW-17 | PH | pH | 8/8/2022 14:37 | 8.38 | SU |
| GS-AP-MW-17 | SULFIDE | Sulfide | 8/8/2022 14:37 | 0 | mg/L |
| GS-AP-MW-17 | TEMP | Temperature | 8/8/2022 14:37 | 18.83 | C |
| GS-AP-MW-17 | TURB | Turbidity | 8/8/2022 14:37 | 1.51 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-17V | COND | Conductivity | 8/9/2022 8:04 | 610.56 | uS/cm |
| GS-AP-MW-17V | DO | DO | 8/9/2022 8:04 | 0.43 | mg/L |
| GS-AP-MW-17V | DTW | Depth to Water Detail | 8/9/2022 8:04 | 113.71 | ft |
| GS-AP-MW-17V | ORP | Oxidation Reduction Potention | 8/9/2022 8:04 | -153.36 | mv |
| GS-AP-MW-17V | PH | pH | 8/9/2022 8:04 | 7.54 | SU |
| GS-AP-MW-17V | TEMP | Temperature | 8/9/2022 8:04 | 18.18 | C |
| GS-AP-MW-17V | TURB | Turbidity | 8/9/2022 8:04 | 4.58 | NTU |
| GS-AP-MW-17V | COND | Conductivity | 8/9/2022 8:09 | 596.48 | uS/cm |
| GS-AP-MW-17V | DO | DO | 8/9/2022 8:09 | 0.34 | mg/L |
| GS-AP-MW-17V | DTW | Depth to Water Detail | 8/9/2022 8:09 | 114.51 | ft |
| GS-AP-MW-17V | ORP | Oxidation Reduction Potention | 8/9/2022 8:09 | -152.1 | mv |
| GS-AP-MW-17V | PH | pH | 8/9/2022 8:09 | 7.54 | SU |
| GS-AP-MW-17V | TEMP | Temperature | 8/9/2022 8:09 | 18.21 | C |
| GS-AP-MW-17V | TURB | Turbidity | 8/9/2022 8:09 | 3.48 | NTU |
| GS-AP-MW-17V | COND | Conductivity | 8/9/2022 8:14 | 592.87 | uS/cm |
| GS-AP-MW-17V | DO | DO | 8/9/2022 8:14 | 0.29 | mg/L |
| GS-AP-MW-17V | DTW | Depth to Water Detail | 8/9/2022 8:14 | 116 | ft |
| GS-AP-MW-17V | ORP | Oxidation Reduction Potention | 8/9/2022 8:14 | -148.26 | mv |
| GS-AP-MW-17V | PH | pH | 8/9/2022 8:14 | 7.5 | SU |
| GS-AP-MW-17V | TEMP | Temperature | 8/9/2022 8:14 | 18.12 | C |
| GS-AP-MW-17V | TURB | Turbidity | 8/9/2022 8:14 | 3.67 | NTU |
| GS-AP-MW-17V | COND | Conductivity | 8/9/2022 8:19 | 587.47 | uS/cm |
| GS-AP-MW-17V | DO | DO | 8/9/2022 8:19 | 0.24 | mg/L |
| GS-AP-MW-17V | DTW | Depth to Water Detail | 8/9/2022 8:19 | 117.68 | ft |
| GS-AP-MW-17V | ORP | Oxidation Reduction Potention | 8/9/2022 8:19 | -146.41 | mv |
| GS-AP-MW-17V | PH | pH | 8/9/2022 8:19 | 7.46 | SU |
| GS-AP-MW-17V | TEMP | Temperature | 8/9/2022 8:19 | 18.03 | C |
| GS-AP-MW-17V | TURB | Turbidity | 8/9/2022 8:19 | 2.01 | NTU |
| GS-AP-MW-17V | COND | Conductivity | 8/9/2022 8:24 | 584.27 | uS/cm |
| GS-AP-MW-17V | DO | DO | 8/9/2022 8:24 | 0.23 | mg/L |
| GS-AP-MW-17V | DTW | Depth to Water Detail | 8/9/2022 8:24 | 119.11 | ft |
| GS-AP-MW-17V | ORP | Oxidation Reduction Potention | 8/9/2022 8:24 | -147.89 | mv |
| GS-AP-MW-17V | PH | pH | 8/9/2022 8:24 | 7.49 | SU |
| GS-AP-MW-17V | TEMP | Temperature | 8/9/2022 8:24 | 18.09 | C |
| GS-AP-MW-17V | TURB | Turbidity | 8/9/2022 8:24 | 2.04 | NTU |
| GS-AP-MW-17V | COND | Conductivity | 8/9/2022 8:29 | 595.41 | uS/cm |
| GS-AP-MW-17V | DO | DO | 8/9/2022 8:29 | 0.55 | mg/L |
| GS-AP-MW-17V | DTW | Depth to Water Detail | 8/9/2022 8:29 | 119.31 | ft |
| GS-AP-MW-17V | ORP | Oxidation Reduction Potention | 8/9/2022 8:29 | -138.61 | mv |
| GS-AP-MW-17V | PH | pH | 8/9/2022 8:29 | 7.51 | SU |
| GS-AP-MW-17V | TEMP | Temperature | 8/9/2022 8:29 | 19.98 | C |
| GS-AP-MW-17V | TURB | Turbidity | 8/9/2022 8:29 | 2.44 | NTU |
| GS-AP-MW-17V | COND | Conductivity | 8/9/2022 8:34 | 611.54 | uS/cm |
| GS-AP-MW-17V | DO | DO | 8/9/2022 8:34 | 0.63 | mg/L |
| GS-AP-MW-17V | DTW | Depth to Water Detail | 8/9/2022 8:34 | 119.1 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-17V | ORP | Oxidation Reduction Potention | 8/9/2022 8:34 | -137.6 | mv |
| GS-AP-MW-17V | PH | pH | 8/9/2022 8:34 | 7.52 | SU |
| GS-AP-MW-17V | TEMP | Temperature | 8/9/2022 8:34 | 20.07 | C |
| GS-AP-MW-17V | TURB | Turbidity | 8/9/2022 8:34 | 1.93 | NTU |
| GS-AP-MW-17V | COND | Conductivity | 8/9/2022 8:39 | 607.23 | uS/cm |
| GS-AP-MW-17V | DO | DO | 8/9/2022 8:39 | 0.43 | mg/L |
| GS-AP-MW-17V | DTW | Depth to Water Detail | 8/9/2022 8:39 | 119.02 | ft |
| GS-AP-MW-17V | ORP | Oxidation Reduction Potention | 8/9/2022 8:39 | -145.51 | mv |
| GS-AP-MW-17V | PH | pH | 8/9/2022 8:39 | 7.55 | SU |
| GS-AP-MW-17V | SULFIDE | Sulfide | 8/9/2022 8:39 | 0 | mg/L |
| GS-AP-MW-17V | TEMP | Temperature | 8/9/2022 8:39 | 19.17 | C |
| GS-AP-MW-17V | TURB | Turbidity | 8/9/2022 8:39 | 1.9 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21 | COND | Conductivity | 8/10/2022 8:11 | 1040.43 | uS/cm |
| GS-AP-MW-21 | DO | DO | 8/10/2022 8:11 | 1.53 | mg/L |
| GS-AP-MW-21 | DTW | Depth to Water Detail | 8/10/2022 8:11 | 178.71 | ft |
| GS-AP-MW-21 | ORP | Oxidation Reduction Potention | 8/10/2022 8:11 | -220.07 | mv |
| GS-AP-MW-21 | PH | pH | 8/10/2022 8:11 | 10.31 | SU |
| GS-AP-MW-21 | TEMP | Temperature | 8/10/2022 8:11 | 18.59 | C |
| GS-AP-MW-21 | TURB | Turbidity | 8/10/2022 8:11 | 4.26 | NTU |
| GS-AP-MW-21 | COND | Conductivity | 8/10/2022 8:16 | 1029.59 | uS/cm |
| GS-AP-MW-21 | DO | DO | 8/10/2022 8:16 | 1.02 | mg/L |
| GS-AP-MW-21 | DTW | Depth to Water Detail | 8/10/2022 8:16 | 178.98 | ft |
| GS-AP-MW-21 | ORP | Oxidation Reduction Potention | 8/10/2022 8:16 | -223.96 | mv |
| GS-AP-MW-21 | PH | pH | 8/10/2022 8:16 | 10.13 | SU |
| GS-AP-MW-21 | TEMP | Temperature | 8/10/2022 8:16 | 18.38 | C |
| GS-AP-MW-21 | TURB | Turbidity | 8/10/2022 8:16 | 2.68 | NTU |
| GS-AP-MW-21 | COND | Conductivity | 8/10/2022 8:21 | 1013.54 | uS/cm |
| GS-AP-MW-21 | DO | DO | 8/10/2022 8:21 | 0.79 | mg/L |
| GS-AP-MW-21 | DTW | Depth to Water Detail | 8/10/2022 8:21 | 179.04 | ft |
| GS-AP-MW-21 | ORP | Oxidation Reduction Potention | 8/10/2022 8:21 | -223.74 | mv |
| GS-AP-MW-21 | PH | pH | 8/10/2022 8:21 | 9.93 | SU |
| GS-AP-MW-21 | TEMP | Temperature | 8/10/2022 8:21 | 18.25 | C |
| GS-AP-MW-21 | TURB | Turbidity | 8/10/2022 8:21 | 2.07 | NTU |
| GS-AP-MW-21 | COND | Conductivity | 8/10/2022 8:26 | 963.68 | uS/cm |
| GS-AP-MW-21 | DO | DO | 8/10/2022 8:26 | 0.62 | mg/L |
| GS-AP-MW-21 | DTW | Depth to Water Detail | 8/10/2022 8:26 | 179.13 | ft |
| GS-AP-MW-21 | ORP | Oxidation Reduction Potention | 8/10/2022 8:26 | -224.88 | mv |
| GS-AP-MW-21 | PH | pH | 8/10/2022 8:26 | 9.75 | SU |
| GS-AP-MW-21 | TEMP | Temperature | 8/10/2022 8:26 | 19.3 | C |
| GS-AP-MW-21 | TURB | Turbidity | 8/10/2022 8:26 | 2.13 | NTU |
| GS-AP-MW-21 | COND | Conductivity | 8/10/2022 8:31 | 938.61 | uS/cm |
| GS-AP-MW-21 | DO | DO | 8/10/2022 8:31 | 0.44 | mg/L |
| GS-AP-MW-21 | DTW | Depth to Water Detail | 8/10/2022 8:31 | 179.21 | ft |
| GS-AP-MW-21 | ORP | Oxidation Reduction Potention | 8/10/2022 8:31 | -226.4 | mv |
| GS-AP-MW-21 | PH | pH | 8/10/2022 8:31 | 9.65 | SU |
| GS-AP-MW-21 | TEMP | Temperature | 8/10/2022 8:31 | 18.48 | C |
| GS-AP-MW-21 | TURB | Turbidity | 8/10/2022 8:31 | 2.42 | NTU |
| GS-AP-MW-21 | COND | Conductivity | 8/10/2022 8:36 | 925.9 | uS/cm |
| GS-AP-MW-21 | DO | DO | 8/10/2022 8:36 | 0.36 | mg/L |
| GS-AP-MW-21 | DTW | Depth to Water Detail | 8/10/2022 8:36 | 179.26 | ft |
| GS-AP-MW-21 | ORP | Oxidation Reduction Potention | 8/10/2022 8:36 | -225.86 | mv |
| GS-AP-MW-21 | PH | pH | 8/10/2022 8:36 | 9.52 | SU |
| GS-AP-MW-21 | TEMP | Temperature | 8/10/2022 8:36 | 18.31 | C |
| GS-AP-MW-21 | TURB | Turbidity | 8/10/2022 8:36 | 2.08 | NTU |
| GS-AP-MW-21 | COND | Conductivity | 8/10/2022 8:41 | 912.11 | uS/cm |
| GS-AP-MW-21 | DO | DO | 8/10/2022 8:41 | 0.33 | mg/L |
| GS-AP-MW-21 | DTW | Depth to Water Detail | 8/10/2022 8:41 | 179.32 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21 | ORP | Oxidation Reduction Potention | 8/10/2022 8:41 | -224.75 | mv |
| GS-AP-MW-21 | PH | pH | 8/10/2022 8:41 | 9.4 | SU |
| GS-AP-MW-21 | TEMP | Temperature | 8/10/2022 8:41 | 18.22 | C |
| GS-AP-MW-21 | TURB | Turbidity | 8/10/2022 8:41 | 1.98 | NTU |
| GS-AP-MW-21 | COND | Conductivity | 8/10/2022 8:46 | 902.3 | uS/cm |
| GS-AP-MW-21 | DO | DO | 8/10/2022 8:46 | 0.3 | mg/L |
| GS-AP-MW-21 | DTW | Depth to Water Detail | 8/10/2022 8:46 | 179.36 | ft |
| GS-AP-MW-21 | ORP | Oxidation Reduction Potention | 8/10/2022 8:46 | -225.44 | mv |
| GS-AP-MW-21 | PH | pH | 8/10/2022 8:46 | 9.3 | SU |
| GS-AP-MW-21 | TEMP | Temperature | 8/10/2022 8:46 | 19.22 | C |
| GS-AP-MW-21 | TURB | Turbidity | 8/10/2022 8:46 | 2.1 | NTU |
| GS-AP-MW-21 | COND | Conductivity | 8/10/2022 8:51 | 879.93 | uS/cm |
| GS-AP-MW-21 | DO | DO | 8/10/2022 8:51 | 0.26 | mg/L |
| GS-AP-MW-21 | DTW | Depth to Water Detail | 8/10/2022 8:51 | 179.4 | ft |
| GS-AP-MW-21 | ORP | Oxidation Reduction Potention | 8/10/2022 8:51 | -225.89 | mv |
| GS-AP-MW-21 | PH | pH | 8/10/2022 8:51 | 9.26 | SU |
| GS-AP-MW-21 | SULFIDE | Sulfide | 8/10/2022 8:51 | 3 | mg/L |
| GS-AP-MW-21 | TEMP | Temperature | 8/10/2022 8:51 | 18.59 | C |
| GS-AP-MW-21 | TURB | Turbidity | 8/10/2022 8:51 | 2.16 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 10:17 | 3774.19 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 10:17 | 0.3 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 10:17 | 193.4 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 10:17 | -193.8 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 10:17 | 7.56 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 10:17 | 18.61 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 10:17 | 3.47 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 10:22 | 3714.61 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 10:22 | 0.27 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 10:22 | 196.71 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 10:22 | -183.64 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 10:22 | 7.55 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 10:22 | 18.15 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 10:22 | 3.32 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 10:27 | 3663.94 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 10:27 | 0.22 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 10:27 | 199.54 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 10:27 | -184.6 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 10:27 | 7.56 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 10:27 | 18.43 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 10:27 | 3.44 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 10:32 | 3617.9 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 10:32 | 0.22 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 10:32 | 202.12 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 10:32 | -180.19 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 10:32 | 7.53 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 10:32 | 18.31 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 10:32 | 3.42 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 10:37 | 3585.05 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 10:37 | 0.19 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 10:37 | 205.41 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 10:37 | -182.69 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 10:37 | 7.56 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 10:37 | 18.44 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 10:37 | 3.26 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 10:42 | 3663.87 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 10:42 | 0.53 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 10:42 | 206.4 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 10:42 | -174.16 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 10:42 | 7.53 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 10:42 | 21.95 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 10:42 | 3.32 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 10:47 | 3757.86 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 10:47 | 0.64 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 10:47 | 206.61 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 10:47 | -170.47 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 10:47 | 7.53 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 10:47 | 22.82 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 10:47 | 3.16 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 10:52 | 3715.85 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 10:52 | 0.68 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 10:52 | 207 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 10:52 | -168.02 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 10:52 | 7.54 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 10:52 | 22.79 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 10:52 | 3.51 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 10:57 | 3621.1 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 10:57 | 0.7 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 10:57 | 207.21 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 10:57 | -170.51 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 10:57 | 7.58 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 10:57 | 23.18 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 10:57 | 2.88 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:02 | 3349.3 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:02 | 0.22 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:02 | 209.41 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:02 | -182.39 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:02 | 7.61 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:02 | 19.29 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:02 | 2.84 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:07 | 3433.08 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:07 | 0.2 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:07 | 211.93 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:07 | -181.3 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:07 | 7.6 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:07 | 18.86 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:07 | 2.92 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:12 | 3373.47 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:12 | 0.23 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:12 | 213.3 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:12 | -180.51 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:12 | 7.58 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:12 | 19.52 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:12 | 2.98 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:17 | 3511.05 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:17 | 0.56 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:17 | 213.59 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:17 | -172.19 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:17 | 7.57 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:17 | 22.62 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:17 | 2.64 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:22 | 3508.76 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:22 | 0.56 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:22 | 213.78 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:22 | -170.51 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:22 | 7.59 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:22 | 22.8 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:22 | 2.55 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:27 | 3445.26 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:27 | 0.6 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:27 | 214.04 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:27 | -170.14 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:27 | 7.6 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:27 | 22.84 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:27 | 2.57 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:32 | 3264.26 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:32 | 0.6 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:32 | 214.26 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:32 | -173.33 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:32 | 7.65 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:32 | 23.14 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:32 | 2.61 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:37 | 3037.63 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:37 | 0.61 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:37 | 214.51 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:37 | -175.41 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:37 | 7.69 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:37 | 22.41 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:37 | 2.63 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:42 | 2940.07 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:42 | 0.6 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:42 | 214.69 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:42 | -177.07 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:42 | 7.72 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:42 | 22.52 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:42 | 2.49 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:47 | 2843.49 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:47 | 0.58 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:47 | 214.86 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:47 | -177.71 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:47 | 7.74 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:47 | 22.78 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:47 | 2.52 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:52 | 2783.02 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:52 | 0.56 | mg/L |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:52 | 215.02 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:52 | -179.65 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:52 | 7.77 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:52 | 22.79 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:52 | 2.69 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 11:57 | 2661.07 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 11:57 | 0.56 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 11:57 | 215.23 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 11:57 | -180.54 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 11:57 | 7.79 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 11:57 | 22.22 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 11:57 | 2.27 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:02 | 2662.56 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:02 | 0.56 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:02 | 215.41 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:02 | -181.36 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:02 | 7.81 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:02 | 22.2 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:02 | 2.32 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:07 | 2575.2 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:07 | 0.53 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:07 | 215.58 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:07 | -180.99 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:07 | 7.82 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:07 | 22.18 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:07 | 2.5 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:12 | 2530.69 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:12 | 0.55 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:12 | 215.76 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:12 | -182.39 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:12 | 7.84 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:12 | 21.92 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:12 | 2.54 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:17 | 2483.32 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:17 | 0.51 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:17 | 215.92 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:17 | -183.28 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:17 | 7.85 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:17 | 22.26 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:17 | 2.21 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:22 | 2430.94 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:22 | 0.52 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:22 | 216.11 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:22 | -184.13 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:22 | 7.87 | SU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:22 | 21.92 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:22 | 2.4 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:27 | 2447.51 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:27 | 0.49 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:27 | 216.25 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:27 | -184.6 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:27 | 7.86 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:27 | 22.49 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:27 | 2.38 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:32 | 2454.65 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:32 | 0.5 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:32 | 216.45 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:32 | -184.93 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:32 | 7.87 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:32 | 21.97 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:32 | 2.21 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:37 | 2419.63 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:37 | 0.49 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:37 | 216.59 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:37 | -185.23 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:37 | 7.88 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:37 | 22.29 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:37 | 2.98 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:42 | 2352.56 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:42 | 0.48 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:42 | 216.77 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:42 | -186.65 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:42 | 7.91 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:42 | 21.82 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:42 | 2.72 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:47 | 2341.93 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:47 | 0.47 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:47 | 216.9 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:47 | -187.18 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:47 | 7.91 | SU |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:47 | 22.01 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:47 | 2.68 | NTU |
| GS-AP-MW-21V | COND | Conductivity | 8/9/2022 12:52 | 2352.57 | uS/cm |
| GS-AP-MW-21V | DO | DO | 8/9/2022 12:52 | 0.45 | mg/L |
| GS-AP-MW-21V | DTW | Depth to Water Detail | 8/9/2022 12:52 | 217.05 | ft |
| GS-AP-MW-21V | ORP | Oxidation Reduction Potention | 8/9/2022 12:52 | -187.11 | mv |
| GS-AP-MW-21V | PH | pH | 8/9/2022 12:52 | 7.9 | SU |
| GS-AP-MW-21V | SULFIDE | Sulfide | 8/9/2022 12:52 | 0 | mg/L |
| GS-AP-MW-21V | TEMP | Temperature | 8/9/2022 12:52 | 22.23 | C |
| GS-AP-MW-21V | TURB | Turbidity | 8/9/2022 12:52 | 2.74 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 11:45 | 983.36 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 11:45 | 0.89 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 11:45 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potention | 8/10/2022 11:45 | -195.53 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 11:45 | 7.62 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 11:45 | 21.55 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 11:45 | 4.12 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 11:50 | 1305.39 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 11:50 | 0.71 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 11:50 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potention | 8/10/2022 11:50 | -184.54 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 11:50 | 7.64 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 11:50 | 21.53 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 11:50 | 3.66 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 11:55 | 1301.16 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 11:55 | 0.56 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 11:55 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potention | 8/10/2022 11:55 | -182.59 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 11:55 | 7.64 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 11:55 | 21.05 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 11:55 | 2.82 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 12:00 | 1231.92 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 12:00 | 0.5 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 12:00 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potention | 8/10/2022 12:00 | -181.28 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 12:00 | 7.63 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 12:00 | 20.94 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 12:00 | 2.33 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 12:05 | 1119.94 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 12:05 | 0.46 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 12:05 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potention | 8/10/2022 12:05 | -179.43 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 12:05 | 7.66 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 12:05 | 20.92 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 12:05 | 1.89 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 12:10 | 1047.22 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 12:10 | 0.45 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 12:10 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potention | 8/10/2022 12:10 | -176.16 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 12:10 | 7.66 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 12:10 | 20.9 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 12:10 | 1.69 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 12:15 | 978.97 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 12:15 | 0.43 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 12:15 | 48.97 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-38H | ORP | Oxidation Reduction Potential | 8/10/2022 12:15 | -172.44 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 12:15 | 7.65 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 12:15 | 20.83 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 12:15 | 1.45 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 12:20 | 925.26 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 12:20 | 0.47 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 12:20 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potential | 8/10/2022 12:20 | -167.7 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 12:20 | 7.64 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 12:20 | 21.36 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 12:20 | 1.56 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 12:25 | 897.22 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 12:25 | 0.48 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 12:25 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potential | 8/10/2022 12:25 | -163.58 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 12:25 | 7.61 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 12:25 | 21.53 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 12:25 | 1.39 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 12:30 | 873.29 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 12:30 | 0.48 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 12:30 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potential | 8/10/2022 12:30 | -160.59 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 12:30 | 7.59 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 12:30 | 21.65 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 12:30 | 1.78 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 12:35 | 843.73 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 12:35 | 0.49 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 12:35 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potential | 8/10/2022 12:35 | -156.24 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 12:35 | 7.56 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 12:35 | 21.2 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 12:35 | 1.7 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 12:40 | 835.8 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 12:40 | 0.49 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 12:40 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potential | 8/10/2022 12:40 | -153.4 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 12:40 | 7.52 | SU |
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 12:40 | 21.41 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 12:40 | 1.55 | NTU |
| GS-AP-MW-38H | COND | Conductivity | 8/10/2022 12:45 | 820.39 | uS/cm |
| GS-AP-MW-38H | DO | DO | 8/10/2022 12:45 | 0.49 | mg/L |
| GS-AP-MW-38H | DTW | Depth to Water Detail | 8/10/2022 12:45 | 48.97 | ft |
| GS-AP-MW-38H | ORP | Oxidation Reduction Potential | 8/10/2022 12:45 | -150.41 | mv |
| GS-AP-MW-38H | PH | pH | 8/10/2022 12:45 | 7.49 | SU |
| GS-AP-MW-38H | SULFIDE | Sulfide | 8/10/2022 12:45 | 0 | mg/L |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-38H | TEMP | Temperature | 8/10/2022 12:45 | 21.2 | C |
| GS-AP-MW-38H | TURB | Turbidity | 8/10/2022 12:45 | 1.27 | NTU |
| GS-AP-MW-8 | COND | Conductivity | 8/2/2022 9:47 | 135.37 | uS/cm |
| GS-AP-MW-8 | DO | DO | 8/2/2022 9:47 | 1.23 | mg/L |
| GS-AP-MW-8 | DTW | Depth to Water Detail | 8/2/2022 9:47 | 44.56 | ft |
| GS-AP-MW-8 | ORP | Oxidation Reduction Potention | 8/2/2022 9:47 | 119.81 | mv |
| GS-AP-MW-8 | PH | pH | 8/2/2022 9:47 | 5.73 | SU |
| GS-AP-MW-8 | TEMP | Temperature | 8/2/2022 9:47 | 21.7 | C |
| GS-AP-MW-8 | TURB | Turbidity | 8/2/2022 9:47 | 4.71 | NTU |
| GS-AP-MW-8 | COND | Conductivity | 8/2/2022 9:52 | 134.9 | uS/cm |
| GS-AP-MW-8 | DO | DO | 8/2/2022 9:52 | 1.03 | mg/L |
| GS-AP-MW-8 | DTW | Depth to Water Detail | 8/2/2022 9:52 | 44.68 | ft |
| GS-AP-MW-8 | ORP | Oxidation Reduction Potention | 8/2/2022 9:52 | 117.04 | mv |
| GS-AP-MW-8 | PH | pH | 8/2/2022 9:52 | 5.77 | SU |
| GS-AP-MW-8 | TEMP | Temperature | 8/2/2022 9:52 | 21.82 | C |
| GS-AP-MW-8 | TURB | Turbidity | 8/2/2022 9:52 | 1.9 | NTU |
| GS-AP-MW-8 | COND | Conductivity | 8/2/2022 9:57 | 134.23 | uS/cm |
| GS-AP-MW-8 | DO | DO | 8/2/2022 9:57 | 0.91 | mg/L |
| GS-AP-MW-8 | DTW | Depth to Water Detail | 8/2/2022 9:57 | 44.82 | ft |
| GS-AP-MW-8 | ORP | Oxidation Reduction Potention | 8/2/2022 9:57 | 114.56 | mv |
| GS-AP-MW-8 | PH | pH | 8/2/2022 9:57 | 5.79 | SU |
| GS-AP-MW-8 | TEMP | Temperature | 8/2/2022 9:57 | 21.65 | C |
| GS-AP-MW-8 | TURB | Turbidity | 8/2/2022 9:57 | 1.71 | NTU |
| GS-AP-MW-8 | COND | Conductivity | 8/2/2022 10:02 | 133.43 | uS/cm |
| GS-AP-MW-8 | DO | DO | 8/2/2022 10:02 | 0.83 | mg/L |
| GS-AP-MW-8 | DTW | Depth to Water Detail | 8/2/2022 10:02 | 44.93 | ft |
| GS-AP-MW-8 | ORP | Oxidation Reduction Potention | 8/2/2022 10:02 | 116.74 | mv |
| GS-AP-MW-8 | PH | pH | 8/2/2022 10:02 | 5.74 | SU |
| GS-AP-MW-8 | TEMP | Temperature | 8/2/2022 10:02 | 21.5 | C |
| GS-AP-MW-8 | TURB | Turbidity | 8/2/2022 10:02 | 1.44 | NTU |
| GS-AP-MW-8 | COND | Conductivity | 8/2/2022 10:07 | 133.94 | uS/cm |
| GS-AP-MW-8 | DO | DO | 8/2/2022 10:07 | 0.79 | mg/L |
| GS-AP-MW-8 | DTW | Depth to Water Detail | 8/2/2022 10:07 | 44.98 | ft |
| GS-AP-MW-8 | ORP | Oxidation Reduction Potention | 8/2/2022 10:07 | 113.61 | mv |
| GS-AP-MW-8 | PH | pH | 8/2/2022 10:07 | 5.78 | SU |
| GS-AP-MW-8 | SULFIDE | Sulfide | 8/2/2022 10:07 | 0 | mg/L |
| GS-AP-MW-8 | TEMP | Temperature | 8/2/2022 10:07 | 21.6 | C |
| GS-AP-MW-8 | TURB | Turbidity | 8/2/2022 10:07 | 1.32 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-40H | COND | Conductivity | 8/2/2022 12:01 | 1748.89 | uS/cm |
| GS-AP-MW-40H | DO | DO | 8/2/2022 12:01 | 1.46 | mg/L |
| GS-AP-MW-40H | DTW | Depth to Water Detail | 8/2/2022 12:01 | 82.36 | ft |
| GS-AP-MW-40H | ORP | Oxidation Reduction Potention | 8/2/2022 12:01 | 39.12 | mv |
| GS-AP-MW-40H | PH | pH | 8/2/2022 12:01 | 6.35 | SU |
| GS-AP-MW-40H | TEMP | Temperature | 8/2/2022 12:01 | 21.55 | C |
| GS-AP-MW-40H | TURB | Turbidity | 8/2/2022 12:01 | 14.3 | NTU |
| GS-AP-MW-40H | COND | Conductivity | 8/2/2022 12:06 | 1734.38 | uS/cm |
| GS-AP-MW-40H | DO | DO | 8/2/2022 12:06 | 1.41 | mg/L |
| GS-AP-MW-40H | DTW | Depth to Water Detail | 8/2/2022 12:06 | 82.96 | ft |
| GS-AP-MW-40H | ORP | Oxidation Reduction Potention | 8/2/2022 12:06 | 1.51 | mv |
| GS-AP-MW-40H | PH | pH | 8/2/2022 12:06 | 6.31 | SU |
| GS-AP-MW-40H | TEMP | Temperature | 8/2/2022 12:06 | 21.47 | C |
| GS-AP-MW-40H | TURB | Turbidity | 8/2/2022 12:06 | 4.83 | NTU |
| GS-AP-MW-40H | COND | Conductivity | 8/2/2022 12:11 | 1713.49 | uS/cm |
| GS-AP-MW-40H | DO | DO | 8/2/2022 12:11 | 1.34 | mg/L |
| GS-AP-MW-40H | DTW | Depth to Water Detail | 8/2/2022 12:11 | 83.24 | ft |
| GS-AP-MW-40H | ORP | Oxidation Reduction Potention | 8/2/2022 12:11 | -14.53 | mv |
| GS-AP-MW-40H | PH | pH | 8/2/2022 12:11 | 6.3 | SU |
| GS-AP-MW-40H | TEMP | Temperature | 8/2/2022 12:11 | 21.65 | C |
| GS-AP-MW-40H | TURB | Turbidity | 8/2/2022 12:11 | 3.04 | NTU |
| GS-AP-MW-40H | COND | Conductivity | 8/2/2022 12:16 | 1693 | uS/cm |
| GS-AP-MW-40H | DO | DO | 8/2/2022 12:16 | 1.32 | mg/L |
| GS-AP-MW-40H | DTW | Depth to Water Detail | 8/2/2022 12:16 | 83.36 | ft |
| GS-AP-MW-40H | ORP | Oxidation Reduction Potention | 8/2/2022 12:16 | -21.69 | mv |
| GS-AP-MW-40H | PH | pH | 8/2/2022 12:16 | 6.31 | SU |
| GS-AP-MW-40H | TEMP | Temperature | 8/2/2022 12:16 | 21.92 | C |
| GS-AP-MW-40H | TURB | Turbidity | 8/2/2022 12:16 | 2.33 | NTU |
| GS-AP-MW-40H | COND | Conductivity | 8/2/2022 12:21 | 1675.65 | uS/cm |
| GS-AP-MW-40H | DO | DO | 8/2/2022 12:21 | 1.68 | mg/L |
| GS-AP-MW-40H | DTW | Depth to Water Detail | 8/2/2022 12:21 | 83.36 | ft |
| GS-AP-MW-40H | ORP | Oxidation Reduction Potention | 8/2/2022 12:21 | -22.68 | mv |
| GS-AP-MW-40H | PH | pH | 8/2/2022 12:21 | 6.35 | SU |
| GS-AP-MW-40H | TEMP | Temperature | 8/2/2022 12:21 | 22.81 | C |
| GS-AP-MW-40H | TURB | Turbidity | 8/2/2022 12:21 | 2.04 | NTU |
| GS-AP-MW-40H | COND | Conductivity | 8/2/2022 12:26 | 1650.86 | uS/cm |
| GS-AP-MW-40H | DO | DO | 8/2/2022 12:26 | 1.8 | mg/L |
| GS-AP-MW-40H | DTW | Depth to Water Detail | 8/2/2022 12:26 | 83.36 | ft |
| GS-AP-MW-40H | ORP | Oxidation Reduction Potention | 8/2/2022 12:26 | -25.68 | mv |
| GS-AP-MW-40H | PH | pH | 8/2/2022 12:26 | 6.4 | SU |
| GS-AP-MW-40H | TEMP | Temperature | 8/2/2022 12:26 | 23.2 | C |
| GS-AP-MW-40H | TURB | Turbidity | 8/2/2022 12:26 | 1.36 | NTU |
| GS-AP-MW-40H | COND | Conductivity | 8/2/2022 12:31 | 1626.71 | uS/cm |
| GS-AP-MW-40H | DO | DO | 8/2/2022 12:31 | 1.77 | mg/L |
| GS-AP-MW-40H | DTW | Depth to Water Detail | 8/2/2022 12:31 | 83.36 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-40H | ORP | Oxidation Reduction Potention | 8/2/2022 12:31 | -25.43 | mv |
| GS-AP-MW-40H | PH | pH | 8/2/2022 12:31 | 6.44 | SU |
| GS-AP-MW-40H | TEMP | Temperature | 8/2/2022 12:31 | 23.27 | C |
| GS-AP-MW-40H | TURB | Turbidity | 8/2/2022 12:31 | 1.19 | NTU |
| GS-AP-MW-40H | COND | Conductivity | 8/2/2022 12:36 | 1620.7 | uS/cm |
| GS-AP-MW-40H | DO | DO | 8/2/2022 12:36 | 1.8 | mg/L |
| GS-AP-MW-40H | DTW | Depth to Water Detail | 8/2/2022 12:36 | 83.36 | ft |
| GS-AP-MW-40H | ORP | Oxidation Reduction Potention | 8/2/2022 12:36 | -23.91 | mv |
| GS-AP-MW-40H | PH | pH | 8/2/2022 12:36 | 6.47 | SU |
| GS-AP-MW-40H | SULFIDE | Sulfide | 8/2/2022 12:36 | 0 | mg/L |
| GS-AP-MW-40H | TEMP | Temperature | 8/2/2022 12:36 | 23.04 | C |
| GS-AP-MW-40H | TURB | Turbidity | 8/2/2022 12:36 | 0.76 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 14:25 | 2495.6 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 14:25 | 0.32 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 14:25 | 151.96 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potention | 8/2/2022 14:25 | -4.78 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 14:25 | 6.59 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 14:25 | 19.78 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 14:25 | 1.8 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 14:30 | 2398.63 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 14:30 | 0.25 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 14:30 | 153.31 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potention | 8/2/2022 14:30 | -46.29 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 14:30 | 6.62 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 14:30 | 20.06 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 14:30 | 1.74 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 14:35 | 2256.33 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 14:35 | 0.24 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 14:35 | 154.02 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potention | 8/2/2022 14:35 | -64.96 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 14:35 | 6.63 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 14:35 | 20.09 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 14:35 | 2.13 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 14:40 | 2132.13 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 14:40 | 0.32 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 14:40 | 155.13 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potention | 8/2/2022 14:40 | -74.81 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 14:40 | 6.62 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 14:40 | 20.96 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 14:40 | 1.86 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 14:45 | 1986.75 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 14:45 | 0.33 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 14:45 | 155.26 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potention | 8/2/2022 14:45 | -85.75 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 14:45 | 6.64 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 14:45 | 20.39 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 14:45 | 1.75 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 14:50 | 1806.18 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 14:50 | 0.35 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 14:50 | 155.41 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potention | 8/2/2022 14:50 | -96.55 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 14:50 | 6.64 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 14:50 | 20.47 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 14:50 | 1.8 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 14:55 | 1687.72 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 14:55 | 0.36 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 14:55 | 155.59 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-05R | ORP | Oxidation Reduction Potential | 8/2/2022 14:55 | -101.22 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 14:55 | 6.64 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 14:55 | 20.51 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 14:55 | 1.47 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 15:00 | 1586.94 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 15:00 | 0.36 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 15:00 | 155.81 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potential | 8/2/2022 15:00 | -104.33 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 15:00 | 6.64 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 15:00 | 20.42 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 15:00 | 1.17 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 15:05 | 1520.51 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 15:05 | 0.42 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 15:05 | 155.82 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potential | 8/2/2022 15:05 | -105.97 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 15:05 | 6.63 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 15:05 | 20.78 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 15:05 | 1.38 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 15:10 | 1467.2 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 15:10 | 0.43 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 15:10 | 155.82 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potential | 8/2/2022 15:10 | -108.63 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 15:10 | 6.63 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 15:10 | 21.19 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 15:10 | 1.61 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 15:15 | 1400.46 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 15:15 | 0.43 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 15:15 | 155.82 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potential | 8/2/2022 15:15 | -112.27 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 15:15 | 6.65 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 15:15 | 21.54 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 15:15 | 1 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 15:20 | 1341.37 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 15:20 | 0.46 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 15:20 | 155.82 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potential | 8/2/2022 15:20 | -115.05 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 15:20 | 6.68 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 15:20 | 20.86 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 15:20 | 1.09 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 15:25 | 1298.7 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 15:25 | 0.47 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 15:25 | 155.82 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potential | 8/2/2022 15:25 | -117.91 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 15:25 | 6.7 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 15:25 | 21.14 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 15:25 | 0.97 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 15:30 | 1262.15 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 15:30 | 0.48 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 15:30 | 155.82 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potention | 8/2/2022 15:30 | -120.05 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 15:30 | 6.71 | SU |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 15:30 | 21.58 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 15:30 | 1.01 | NTU |
| GS-AP-MW-05R | COND | Conductivity | 8/2/2022 15:35 | 1244.19 | uS/cm |
| GS-AP-MW-05R | DO | DO | 8/2/2022 15:35 | 0.48 | mg/L |
| GS-AP-MW-05R | DTW | Depth to Water Detail | 8/2/2022 15:35 | 155.82 | ft |
| GS-AP-MW-05R | ORP | Oxidation Reduction Potention | 8/2/2022 15:35 | -121.27 | mv |
| GS-AP-MW-05R | PH | pH | 8/2/2022 15:35 | 6.72 | SU |
| GS-AP-MW-05R | SULFIDE | Sulfide | 8/2/2022 15:35 | 0 | mg/L |
| GS-AP-MW-05R | TEMP | Temperature | 8/2/2022 15:35 | 21.64 | C |
| GS-AP-MW-05R | TURB | Turbidity | 8/2/2022 15:35 | 0.84 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-18R | COND | Conductivity | 8/3/2022 9:35 | 325.43 | uS/cm |
| GS-AP-MW-18R | DO | DO | 8/3/2022 9:35 | 0.16 | mg/L |
| GS-AP-MW-18R | DTW | Depth to Water Detail | 8/3/2022 9:35 | 41.32 | ft |
| GS-AP-MW-18R | ORP | Oxidation Reduction Potention | 8/3/2022 9:35 | -19.12 | mv |
| GS-AP-MW-18R | PH | pH | 8/3/2022 9:35 | 6.64 | SU |
| GS-AP-MW-18R | TEMP | Temperature | 8/3/2022 9:35 | 17.69 | C |
| GS-AP-MW-18R | TURB | Turbidity | 8/3/2022 9:35 | 34.3 | NTU |
| GS-AP-MW-18R | COND | Conductivity | 8/3/2022 9:40 | 287.13 | uS/cm |
| GS-AP-MW-18R | DO | DO | 8/3/2022 9:40 | 0.15 | mg/L |
| GS-AP-MW-18R | DTW | Depth to Water Detail | 8/3/2022 9:40 | 41.38 | ft |
| GS-AP-MW-18R | ORP | Oxidation Reduction Potention | 8/3/2022 9:40 | -20.01 | mv |
| GS-AP-MW-18R | PH | pH | 8/3/2022 9:40 | 6.52 | SU |
| GS-AP-MW-18R | TEMP | Temperature | 8/3/2022 9:40 | 17.73 | C |
| GS-AP-MW-18R | TURB | Turbidity | 8/3/2022 9:40 | 11.15 | NTU |
| GS-AP-MW-18R | COND | Conductivity | 8/3/2022 9:45 | 272.27 | uS/cm |
| GS-AP-MW-18R | DO | DO | 8/3/2022 9:45 | 0.17 | mg/L |
| GS-AP-MW-18R | DTW | Depth to Water Detail | 8/3/2022 9:45 | 41.38 | ft |
| GS-AP-MW-18R | ORP | Oxidation Reduction Potention | 8/3/2022 9:45 | -19.64 | mv |
| GS-AP-MW-18R | PH | pH | 8/3/2022 9:45 | 6.48 | SU |
| GS-AP-MW-18R | TEMP | Temperature | 8/3/2022 9:45 | 17.8 | C |
| GS-AP-MW-18R | TURB | Turbidity | 8/3/2022 9:45 | 5.09 | NTU |
| GS-AP-MW-18R | COND | Conductivity | 8/3/2022 9:50 | 264.82 | uS/cm |
| GS-AP-MW-18R | DO | DO | 8/3/2022 9:50 | 0.17 | mg/L |
| GS-AP-MW-18R | DTW | Depth to Water Detail | 8/3/2022 9:50 | 41.38 | ft |
| GS-AP-MW-18R | ORP | Oxidation Reduction Potention | 8/3/2022 9:50 | -19.01 | mv |
| GS-AP-MW-18R | PH | pH | 8/3/2022 9:50 | 6.46 | SU |
| GS-AP-MW-18R | TEMP | Temperature | 8/3/2022 9:50 | 17.79 | C |
| GS-AP-MW-18R | TURB | Turbidity | 8/3/2022 9:50 | 3.99 | NTU |
| GS-AP-MW-18R | COND | Conductivity | 8/3/2022 9:55 | 259.77 | uS/cm |
| GS-AP-MW-18R | DO | DO | 8/3/2022 9:55 | 0.24 | mg/L |
| GS-AP-MW-18R | DTW | Depth to Water Detail | 8/3/2022 9:55 | 41.38 | ft |
| GS-AP-MW-18R | ORP | Oxidation Reduction Potention | 8/3/2022 9:55 | -18.18 | mv |
| GS-AP-MW-18R | PH | pH | 8/3/2022 9:55 | 6.44 | SU |
| GS-AP-MW-18R | TEMP | Temperature | 8/3/2022 9:55 | 17.61 | C |
| GS-AP-MW-18R | TURB | Turbidity | 8/3/2022 9:55 | 2.98 | NTU |
| GS-AP-MW-18R | COND | Conductivity | 8/3/2022 10:00 | 262.9 | uS/cm |
| GS-AP-MW-18R | DO | DO | 8/3/2022 10:00 | 0.34 | mg/L |
| GS-AP-MW-18R | DTW | Depth to Water Detail | 8/3/2022 10:00 | 41.38 | ft |
| GS-AP-MW-18R | ORP | Oxidation Reduction Potention | 8/3/2022 10:00 | -18.32 | mv |
| GS-AP-MW-18R | PH | pH | 8/3/2022 10:00 | 6.47 | SU |
| GS-AP-MW-18R | TEMP | Temperature | 8/3/2022 10:00 | 17.66 | C |
| GS-AP-MW-18R | TURB | Turbidity | 8/3/2022 10:00 | 3.75 | NTU |
| GS-AP-MW-18R | COND | Conductivity | 8/3/2022 10:05 | 257.58 | uS/cm |
| GS-AP-MW-18R | DO | DO | 8/3/2022 10:05 | 0.35 | mg/L |
| GS-AP-MW-18R | DTW | Depth to Water Detail | 8/3/2022 10:05 | 41.38 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|--------------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-18R | ORP | Oxidation Reduction Potention | 8/3/2022 10:05 | -17.72 | mv |
| GS-AP-MW-18R | PH | pH | 8/3/2022 10:05 | 6.46 | SU |
| GS-AP-MW-18R | SULFIDE | Sulfide | 8/3/2022 10:05 | 0 | mg/L |
| GS-AP-MW-18R | TEMP | Temperature | 8/3/2022 10:05 | 17.68 | C |
| GS-AP-MW-18R | TURB | Turbidity | 8/3/2022 10:05 | 2.46 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-19 | COND | Conductivity | 8/3/2022 13:33 | 538.65 | uS/cm |
| GS-AP-MW-19 | DO | DO | 8/3/2022 13:33 | 0.31 | mg/L |
| GS-AP-MW-19 | DTW | Depth to Water Detail | 8/3/2022 13:33 | 115.3 | ft |
| GS-AP-MW-19 | ORP | Oxidation Reduction Potention | 8/3/2022 13:33 | -148.91 | mv |
| GS-AP-MW-19 | PH | pH | 8/3/2022 13:33 | 8.02 | SU |
| GS-AP-MW-19 | TEMP | Temperature | 8/3/2022 13:33 | 19.87 | C |
| GS-AP-MW-19 | TURB | Turbidity | 8/3/2022 13:33 | 0.73 | NTU |
| GS-AP-MW-19 | COND | Conductivity | 8/3/2022 13:38 | 541.37 | uS/cm |
| GS-AP-MW-19 | DO | DO | 8/3/2022 13:38 | 0.29 | mg/L |
| GS-AP-MW-19 | DTW | Depth to Water Detail | 8/3/2022 13:38 | 115.3 | ft |
| GS-AP-MW-19 | ORP | Oxidation Reduction Potention | 8/3/2022 13:38 | -157.6 | mv |
| GS-AP-MW-19 | PH | pH | 8/3/2022 13:38 | 8.02 | SU |
| GS-AP-MW-19 | TEMP | Temperature | 8/3/2022 13:38 | 20.24 | C |
| GS-AP-MW-19 | TURB | Turbidity | 8/3/2022 13:38 | 0.89 | NTU |
| GS-AP-MW-19 | COND | Conductivity | 8/3/2022 13:43 | 542.42 | uS/cm |
| GS-AP-MW-19 | DO | DO | 8/3/2022 13:43 | 0.27 | mg/L |
| GS-AP-MW-19 | DTW | Depth to Water Detail | 8/3/2022 13:43 | 115.3 | ft |
| GS-AP-MW-19 | ORP | Oxidation Reduction Potention | 8/3/2022 13:43 | -159.05 | mv |
| GS-AP-MW-19 | PH | pH | 8/3/2022 13:43 | 7.97 | SU |
| GS-AP-MW-19 | TEMP | Temperature | 8/3/2022 13:43 | 19.79 | C |
| GS-AP-MW-19 | TURB | Turbidity | 8/3/2022 13:43 | 0.78 | NTU |
| GS-AP-MW-19 | COND | Conductivity | 8/3/2022 13:48 | 543.91 | uS/cm |
| GS-AP-MW-19 | DO | DO | 8/3/2022 13:48 | 0.28 | mg/L |
| GS-AP-MW-19 | DTW | Depth to Water Detail | 8/3/2022 13:48 | 115.3 | ft |
| GS-AP-MW-19 | ORP | Oxidation Reduction Potention | 8/3/2022 13:48 | -154.04 | mv |
| GS-AP-MW-19 | PH | pH | 8/3/2022 13:48 | 7.87 | SU |
| GS-AP-MW-19 | SULFIDE | Sulfide | 8/3/2022 13:48 | 0 | mg/L |
| GS-AP-MW-19 | TEMP | Temperature | 8/3/2022 13:48 | 19.3 | C |
| GS-AP-MW-19 | TURB | Turbidity | 8/3/2022 13:48 | 0.65 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 13:41 | 2245.64 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 13:41 | 1.49 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 13:41 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 13:41 | -151.46 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 13:41 | 7.56 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 13:41 | 24.54 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 13:41 | 2.66 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 13:46 | 2195.43 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 13:46 | 1.58 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 13:46 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 13:46 | -151.5 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 13:46 | 7.56 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 13:46 | 24.34 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 13:46 | 2.25 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 13:51 | 2133.09 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 13:51 | 1.57 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 13:51 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 13:51 | -162.5 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 13:51 | 7.59 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 13:51 | 24.34 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 13:51 | 2.07 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 13:56 | 2027.7 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 13:56 | 1.55 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 13:56 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 13:56 | -170.3 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 13:56 | 7.6 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 13:56 | 24.14 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 13:56 | 1.67 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:01 | 1951.78 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:01 | 1.47 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:01 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 14:01 | -179.06 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:01 | 7.63 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:01 | 24.51 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:01 | 2.6 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:06 | 1827.29 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:06 | 1.41 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:06 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 14:06 | -187.41 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:06 | 7.65 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:06 | 24.12 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:06 | 2.33 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:11 | 1755.5 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:11 | 1.32 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:11 | 239.03 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-45V | ORP | Oxidation Reduction Potential | 8/8/2022 14:11 | -194.59 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:11 | 7.67 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:11 | 24.4 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:11 | 1.83 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:16 | 1634.99 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:16 | 1.27 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:16 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potential | 8/8/2022 14:16 | -200.76 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:16 | 7.69 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:16 | 24.04 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:16 | 1.52 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:21 | 1585.03 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:21 | 1.17 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:21 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potential | 8/8/2022 14:21 | -205.83 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:21 | 7.72 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:21 | 24.7 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:21 | 1.53 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:26 | 1483.2 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:26 | 1.13 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:26 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potential | 8/8/2022 14:26 | -208.36 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:26 | 7.73 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:26 | 24.19 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:26 | 1.6 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:31 | 1426.94 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:31 | 1.07 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:31 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potential | 8/8/2022 14:31 | -212.34 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:31 | 7.76 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:31 | 24.25 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:31 | 2.1 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:36 | 1354.22 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:36 | 1.04 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:36 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potential | 8/8/2022 14:36 | -212.55 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:36 | 7.76 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:36 | 23.67 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:36 | 1.38 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:41 | 1317.33 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:41 | 0.99 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:41 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potential | 8/8/2022 14:41 | -213.93 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:41 | 7.78 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:41 | 23.59 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:41 | 1.78 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:46 | 1264.79 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:46 | 0.96 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:46 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 14:46 | -214.02 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:46 | 7.78 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:46 | 22.84 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:46 | 1.23 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:51 | 1215.59 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:51 | 0.92 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:51 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 14:51 | -214.45 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:51 | 7.78 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:51 | 23.14 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:51 | 1.04 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 14:56 | 1167.34 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 14:56 | 0.89 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 14:56 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 14:56 | -214.72 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 14:56 | 7.78 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 14:56 | 22.79 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 14:56 | 0.96 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 15:01 | 1242.94 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 15:01 | 0.86 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 15:01 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 15:01 | -214.12 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 15:01 | 7.78 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 15:01 | 22.51 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 15:01 | 0.88 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 15:06 | 1216.08 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 15:06 | 0.82 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 15:06 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 15:06 | -212.18 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 15:06 | 7.75 | SU |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 15:06 | 22.26 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 15:06 | 0.81 | NTU |
| GS-AP-MW-45V | COND | Conductivity | 8/8/2022 15:11 | 1202.45 | uS/cm |
| GS-AP-MW-45V | DO | DO | 8/8/2022 15:11 | 0.77 | mg/L |
| GS-AP-MW-45V | DTW | Depth to Water Detail | 8/8/2022 15:11 | 239.03 | ft |
| GS-AP-MW-45V | ORP | Oxidation Reduction Potention | 8/8/2022 15:11 | -211.46 | mv |
| GS-AP-MW-45V | PH | pH | 8/8/2022 15:11 | 7.74 | SU |
| GS-AP-MW-45V | SULFIDE | Sulfide | 8/8/2022 15:11 | 3 | mg/L |
| GS-AP-MW-45V | TEMP | Temperature | 8/8/2022 15:11 | 22.27 | C |
| GS-AP-MW-45V | TURB | Turbidity | 8/8/2022 15:11 | 0.96 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-PZ-22 | COND | Conductivity | 8/9/2022 11:59 | 615.65 | uS/cm |
| GS-AP-PZ-22 | DO | DO | 8/9/2022 11:59 | 1.47 | mg/L |
| GS-AP-PZ-22 | DTW | Depth to Water Detail | 8/9/2022 11:59 | 281.05 | ft |
| GS-AP-PZ-22 | ORP | Oxidation Reduction Potention | 8/9/2022 11:59 | -233.96 | mv |
| GS-AP-PZ-22 | PH | pH | 8/9/2022 11:59 | 8.43 | SU |
| GS-AP-PZ-22 | TEMP | Temperature | 8/9/2022 11:59 | 22.25 | C |
| GS-AP-PZ-22 | TURB | Turbidity | 8/9/2022 11:59 | 1.66 | NTU |
| GS-AP-PZ-22 | COND | Conductivity | 8/9/2022 12:04 | 598.52 | uS/cm |
| GS-AP-PZ-22 | DO | DO | 8/9/2022 12:04 | 0.65 | mg/L |
| GS-AP-PZ-22 | DTW | Depth to Water Detail | 8/9/2022 12:04 | 281.05 | ft |
| GS-AP-PZ-22 | ORP | Oxidation Reduction Potention | 8/9/2022 12:04 | -226.52 | mv |
| GS-AP-PZ-22 | PH | pH | 8/9/2022 12:04 | 8.82 | SU |
| GS-AP-PZ-22 | TEMP | Temperature | 8/9/2022 12:04 | 21.65 | C |
| GS-AP-PZ-22 | TURB | Turbidity | 8/9/2022 12:04 | 2.23 | NTU |
| GS-AP-PZ-22 | COND | Conductivity | 8/9/2022 12:09 | 619.2 | uS/cm |
| GS-AP-PZ-22 | DO | DO | 8/9/2022 12:09 | 0.5 | mg/L |
| GS-AP-PZ-22 | DTW | Depth to Water Detail | 8/9/2022 12:09 | 281.05 | ft |
| GS-AP-PZ-22 | ORP | Oxidation Reduction Potention | 8/9/2022 12:09 | -206.01 | mv |
| GS-AP-PZ-22 | PH | pH | 8/9/2022 12:09 | 8.83 | SU |
| GS-AP-PZ-22 | TEMP | Temperature | 8/9/2022 12:09 | 21.17 | C |
| GS-AP-PZ-22 | TURB | Turbidity | 8/9/2022 12:09 | 0.99 | NTU |
| GS-AP-PZ-22 | COND | Conductivity | 8/9/2022 12:14 | 616.99 | uS/cm |
| GS-AP-PZ-22 | DO | DO | 8/9/2022 12:14 | 0.48 | mg/L |
| GS-AP-PZ-22 | DTW | Depth to Water Detail | 8/9/2022 12:14 | 281.05 | ft |
| GS-AP-PZ-22 | ORP | Oxidation Reduction Potention | 8/9/2022 12:14 | -198.38 | mv |
| GS-AP-PZ-22 | PH | pH | 8/9/2022 12:14 | 8.83 | SU |
| GS-AP-PZ-22 | TEMP | Temperature | 8/9/2022 12:14 | 20.33 | C |
| GS-AP-PZ-22 | TURB | Turbidity | 8/9/2022 12:14 | 1.4 | NTU |
| GS-AP-PZ-22 | COND | Conductivity | 8/9/2022 12:19 | 617.67 | uS/cm |
| GS-AP-PZ-22 | DO | DO | 8/9/2022 12:19 | 0.42 | mg/L |
| GS-AP-PZ-22 | DTW | Depth to Water Detail | 8/9/2022 12:19 | 281.05 | ft |
| GS-AP-PZ-22 | ORP | Oxidation Reduction Potention | 8/9/2022 12:19 | -195.56 | mv |
| GS-AP-PZ-22 | PH | pH | 8/9/2022 12:19 | 8.78 | SU |
| GS-AP-PZ-22 | SULFIDE | Sulfide | 8/9/2022 12:19 | 0 | mg/L |
| GS-AP-PZ-22 | TEMP | Temperature | 8/9/2022 12:19 | 21.99 | C |
| GS-AP-PZ-22 | TURB | Turbidity | 8/9/2022 12:19 | 0.85 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-26H | COND | Conductivity | 8/10/2022 10:14 | 454.81 | uS/cm |
| GS-AP-MW-26H | DO | DO | 8/10/2022 10:14 | 1.74 | mg/L |
| GS-AP-MW-26H | DTW | Depth to Water Detail | 8/10/2022 10:14 | 114.66 | ft |
| GS-AP-MW-26H | ORP | Oxidation Reduction Potention | 8/10/2022 10:14 | -121.66 | mv |
| GS-AP-MW-26H | PH | pH | 8/10/2022 10:14 | 7.04 | SU |
| GS-AP-MW-26H | TEMP | Temperature | 8/10/2022 10:14 | 22.83 | C |
| GS-AP-MW-26H | TURB | Turbidity | 8/10/2022 10:14 | 3.49 | NTU |
| GS-AP-MW-26H | COND | Conductivity | 8/10/2022 10:19 | 445.79 | uS/cm |
| GS-AP-MW-26H | DO | DO | 8/10/2022 10:19 | 1.51 | mg/L |
| GS-AP-MW-26H | DTW | Depth to Water Detail | 8/10/2022 10:19 | 115.06 | ft |
| GS-AP-MW-26H | ORP | Oxidation Reduction Potention | 8/10/2022 10:19 | -125.13 | mv |
| GS-AP-MW-26H | PH | pH | 8/10/2022 10:19 | 7.01 | SU |
| GS-AP-MW-26H | TEMP | Temperature | 8/10/2022 10:19 | 22.49 | C |
| GS-AP-MW-26H | TURB | Turbidity | 8/10/2022 10:19 | 3.13 | NTU |
| GS-AP-MW-26H | COND | Conductivity | 8/10/2022 10:24 | 428.73 | uS/cm |
| GS-AP-MW-26H | DO | DO | 8/10/2022 10:24 | 0.86 | mg/L |
| GS-AP-MW-26H | DTW | Depth to Water Detail | 8/10/2022 10:24 | 115.16 | ft |
| GS-AP-MW-26H | ORP | Oxidation Reduction Potention | 8/10/2022 10:24 | -133.87 | mv |
| GS-AP-MW-26H | PH | pH | 8/10/2022 10:24 | 6.99 | SU |
| GS-AP-MW-26H | TEMP | Temperature | 8/10/2022 10:24 | 20.97 | C |
| GS-AP-MW-26H | TURB | Turbidity | 8/10/2022 10:24 | 2.07 | NTU |
| GS-AP-MW-26H | COND | Conductivity | 8/10/2022 10:29 | 410.23 | uS/cm |
| GS-AP-MW-26H | DO | DO | 8/10/2022 10:29 | 1.15 | mg/L |
| GS-AP-MW-26H | DTW | Depth to Water Detail | 8/10/2022 10:29 | 115.16 | ft |
| GS-AP-MW-26H | ORP | Oxidation Reduction Potention | 8/10/2022 10:29 | -121.95 | mv |
| GS-AP-MW-26H | PH | pH | 8/10/2022 10:29 | 6.94 | SU |
| GS-AP-MW-26H | TEMP | Temperature | 8/10/2022 10:29 | 22.57 | C |
| GS-AP-MW-26H | TURB | Turbidity | 8/10/2022 10:29 | 3.53 | NTU |
| GS-AP-MW-26H | COND | Conductivity | 8/10/2022 10:34 | 431.79 | uS/cm |
| GS-AP-MW-26H | DO | DO | 8/10/2022 10:34 | 1.28 | mg/L |
| GS-AP-MW-26H | DTW | Depth to Water Detail | 8/10/2022 10:34 | 115.16 | ft |
| GS-AP-MW-26H | ORP | Oxidation Reduction Potention | 8/10/2022 10:34 | -120.56 | mv |
| GS-AP-MW-26H | PH | pH | 8/10/2022 10:34 | 6.96 | SU |
| GS-AP-MW-26H | TEMP | Temperature | 8/10/2022 10:34 | 22.74 | C |
| GS-AP-MW-26H | TURB | Turbidity | 8/10/2022 10:34 | 1.73 | NTU |
| GS-AP-MW-26H | COND | Conductivity | 8/10/2022 10:39 | 418.32 | uS/cm |
| GS-AP-MW-26H | DO | DO | 8/10/2022 10:39 | 1.41 | mg/L |
| GS-AP-MW-26H | DTW | Depth to Water Detail | 8/10/2022 10:39 | 115.16 | ft |
| GS-AP-MW-26H | ORP | Oxidation Reduction Potention | 8/10/2022 10:39 | -113.4 | mv |
| GS-AP-MW-26H | PH | pH | 8/10/2022 10:39 | 7.04 | SU |
| GS-AP-MW-26H | TEMP | Temperature | 8/10/2022 10:39 | 22.81 | C |
| GS-AP-MW-26H | TURB | Turbidity | 8/10/2022 10:39 | 2.87 | NTU |
| GS-AP-MW-26H | COND | Conductivity | 8/10/2022 10:44 | 408.17 | uS/cm |
| GS-AP-MW-26H | DO | DO | 8/10/2022 10:44 | 1.6 | mg/L |
| GS-AP-MW-26H | DTW | Depth to Water Detail | 8/10/2022 10:44 | 115.16 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-26H | ORP | Oxidation Reduction Potention | 8/10/2022 10:44 | -107.73 | mv |
| GS-AP-MW-26H | PH | pH | 8/10/2022 10:44 | 7.09 | SU |
| GS-AP-MW-26H | TEMP | Temperature | 8/10/2022 10:44 | 23.17 | C |
| GS-AP-MW-26H | TURB | Turbidity | 8/10/2022 10:44 | 1.17 | NTU |
| GS-AP-MW-26H | COND | Conductivity | 8/10/2022 10:49 | 403.44 | uS/cm |
| GS-AP-MW-26H | DO | DO | 8/10/2022 10:49 | 1.56 | mg/L |
| GS-AP-MW-26H | DTW | Depth to Water Detail | 8/10/2022 10:49 | 115.16 | ft |
| GS-AP-MW-26H | ORP | Oxidation Reduction Potention | 8/10/2022 10:49 | -105.76 | mv |
| GS-AP-MW-26H | PH | pH | 8/10/2022 10:49 | 7.13 | SU |
| GS-AP-MW-26H | SULFIDE | Sulfide | 8/10/2022 10:49 | 0 | mg/L |
| GS-AP-MW-26H | TEMP | Temperature | 8/10/2022 10:49 | 23.47 | C |
| GS-AP-MW-26H | TURB | Turbidity | 8/10/2022 10:49 | 1.78 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|--------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-29H | COND | Conductivity | 8/3/2022 11:29 | 745.54 | uS/cm |
| GS-AP-MW-29H | DO | DO | 8/3/2022 11:29 | 0.22 | mg/L |
| GS-AP-MW-29H | DTW | Depth to Water Detail | 8/3/2022 11:29 | 93.38 | ft |
| GS-AP-MW-29H | ORP | Oxidation Reduction Potention | 8/3/2022 11:29 | -91.71 | mv |
| GS-AP-MW-29H | PH | pH | 8/3/2022 11:29 | 7.64 | SU |
| GS-AP-MW-29H | TEMP | Temperature | 8/3/2022 11:29 | 18.98 | C |
| GS-AP-MW-29H | TURB | Turbidity | 8/3/2022 11:29 | 2.84 | NTU |
| GS-AP-MW-29H | COND | Conductivity | 8/3/2022 11:34 | 708.7 | uS/cm |
| GS-AP-MW-29H | DO | DO | 8/3/2022 11:34 | 0.22 | mg/L |
| GS-AP-MW-29H | DTW | Depth to Water Detail | 8/3/2022 11:34 | 94.01 | ft |
| GS-AP-MW-29H | ORP | Oxidation Reduction Potention | 8/3/2022 11:34 | -104 | mv |
| GS-AP-MW-29H | PH | pH | 8/3/2022 11:34 | 7.68 | SU |
| GS-AP-MW-29H | TEMP | Temperature | 8/3/2022 11:34 | 18.74 | C |
| GS-AP-MW-29H | TURB | Turbidity | 8/3/2022 11:34 | 2.9 | NTU |
| GS-AP-MW-29H | COND | Conductivity | 8/3/2022 11:39 | 681.51 | uS/cm |
| GS-AP-MW-29H | DO | DO | 8/3/2022 11:39 | 0.21 | mg/L |
| GS-AP-MW-29H | DTW | Depth to Water Detail | 8/3/2022 11:39 | 94.11 | ft |
| GS-AP-MW-29H | ORP | Oxidation Reduction Potention | 8/3/2022 11:39 | -112.74 | mv |
| GS-AP-MW-29H | PH | pH | 8/3/2022 11:39 | 7.71 | SU |
| GS-AP-MW-29H | TEMP | Temperature | 8/3/2022 11:39 | 18.75 | C |
| GS-AP-MW-29H | TURB | Turbidity | 8/3/2022 11:39 | 1.81 | NTU |
| GS-AP-MW-29H | COND | Conductivity | 8/3/2022 11:44 | 661.51 | uS/cm |
| GS-AP-MW-29H | DO | DO | 8/3/2022 11:44 | 0.23 | mg/L |
| GS-AP-MW-29H | DTW | Depth to Water Detail | 8/3/2022 11:44 | 94.2 | ft |
| GS-AP-MW-29H | ORP | Oxidation Reduction Potention | 8/3/2022 11:44 | -118.98 | mv |
| GS-AP-MW-29H | PH | pH | 8/3/2022 11:44 | 7.75 | SU |
| GS-AP-MW-29H | TEMP | Temperature | 8/3/2022 11:44 | 18.98 | C |
| GS-AP-MW-29H | TURB | Turbidity | 8/3/2022 11:44 | 1.44 | NTU |
| GS-AP-MW-29H | COND | Conductivity | 8/3/2022 11:49 | 644.19 | uS/cm |
| GS-AP-MW-29H | DO | DO | 8/3/2022 11:49 | 0.22 | mg/L |
| GS-AP-MW-29H | DTW | Depth to Water Detail | 8/3/2022 11:49 | 94.33 | ft |
| GS-AP-MW-29H | ORP | Oxidation Reduction Potention | 8/3/2022 11:49 | -125.03 | mv |
| GS-AP-MW-29H | PH | pH | 8/3/2022 11:49 | 7.79 | SU |
| GS-AP-MW-29H | TEMP | Temperature | 8/3/2022 11:49 | 19.26 | C |
| GS-AP-MW-29H | TURB | Turbidity | 8/3/2022 11:49 | 1.38 | NTU |
| GS-AP-MW-29H | COND | Conductivity | 8/3/2022 11:54 | 630.33 | uS/cm |
| GS-AP-MW-29H | DO | DO | 8/3/2022 11:54 | 0.23 | mg/L |
| GS-AP-MW-29H | DTW | Depth to Water Detail | 8/3/2022 11:54 | 94.42 | ft |
| GS-AP-MW-29H | ORP | Oxidation Reduction Potention | 8/3/2022 11:54 | -128.11 | mv |
| GS-AP-MW-29H | PH | pH | 8/3/2022 11:54 | 7.81 | SU |
| GS-AP-MW-29H | TEMP | Temperature | 8/3/2022 11:54 | 19.26 | C |
| GS-AP-MW-29H | TURB | Turbidity | 8/3/2022 11:54 | 1.2 | NTU |
| GS-AP-MW-29H | COND | Conductivity | 8/3/2022 11:59 | 625.07 | uS/cm |
| GS-AP-MW-29H | DO | DO | 8/3/2022 11:59 | 0.22 | mg/L |
| GS-AP-MW-29H | DTW | Depth to Water Detail | 8/3/2022 11:59 | 94.54 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|--------------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-29H | ORP | Oxidation Reduction Potention | 8/3/2022 11:59 | -130.3 | mv |
| GS-AP-MW-29H | PH | pH | 8/3/2022 11:59 | 7.83 | SU |
| GS-AP-MW-29H | SULFIDE | Sulfide | 8/3/2022 11:59 | 0 | mg/L |
| GS-AP-MW-29H | TEMP | Temperature | 8/3/2022 11:59 | 19.38 | C |
| GS-AP-MW-29H | TURB | Turbidity | 8/3/2022 11:59 | 1.1 | NTU |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:08 | 415.6 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:08 | 0.25 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:08 | 211.5 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potention | 8/9/2022 9:08 | -111.62 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:08 | 7.58 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:08 | 18.91 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:08 | 31.2 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:13 | 407.97 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:13 | 0.19 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:13 | 211.91 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potention | 8/9/2022 9:13 | -118.39 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:13 | 7.52 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:13 | 18.3 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:13 | 19.9 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:18 | 408.78 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:18 | 0.16 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:18 | 212.16 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potention | 8/9/2022 9:18 | -122.31 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:18 | 7.48 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:18 | 18.3 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:18 | 20.9 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:23 | 409.1 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:23 | 0.14 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:23 | 212.36 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potention | 8/9/2022 9:23 | -125.5 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:23 | 7.47 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:23 | 18.41 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:23 | 21.5 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:28 | 407.48 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:28 | 0.15 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:28 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potention | 8/9/2022 9:28 | -122.78 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:28 | 7.5 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:28 | 18.52 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:28 | 20.6 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:33 | 405.11 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:33 | 0.12 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:33 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potention | 8/9/2022 9:33 | -129.55 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:33 | 7.54 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:33 | 18.25 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:33 | 18 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:38 | 403.76 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:38 | 0.12 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:38 | 212.52 | ft |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potential | 8/9/2022 9:38 | -131.58 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:38 | 7.56 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:38 | 18.16 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:38 | 18.3 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:43 | 406.78 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:43 | 0.11 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:43 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potential | 8/9/2022 9:43 | -134.4 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:43 | 7.61 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:43 | 18.66 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:43 | 15.6 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:48 | 406.27 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:48 | 0.11 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:48 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potential | 8/9/2022 9:48 | -136.9 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:48 | 7.64 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:48 | 18.65 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:48 | 14 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:53 | 404.14 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:53 | 0.1 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:53 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potential | 8/9/2022 9:53 | -138.16 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:53 | 7.69 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:53 | 18.48 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:53 | 12.9 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 9:58 | 404.44 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 9:58 | 0.11 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 9:58 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potential | 8/9/2022 9:58 | -141.79 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 9:58 | 7.74 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 9:58 | 18.29 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 9:58 | 12.8 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 10:03 | 404.39 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 10:03 | 0.11 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 10:03 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potential | 8/9/2022 10:03 | -145.63 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 10:03 | 7.79 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 10:03 | 19.39 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 10:03 | 11.4 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 10:08 | 406.69 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 10:08 | 0.1 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 10:08 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potential | 8/9/2022 10:08 | -147.51 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 10:08 | 7.82 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 10:08 | 19.1 | C |

**Field Parameters Summary
Plant Gorgas Ash Pond**

| WELL ID | # PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-------------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 10:08 | 13.5 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 10:13 | 405 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 10:13 | 0.12 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 10:13 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potention | 8/9/2022 10:13 | -149.07 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 10:13 | 7.85 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 10:13 | 18.8 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 10:13 | 11.5 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 10:18 | 403.86 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 10:18 | 0.1 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 10:18 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potention | 8/9/2022 10:18 | -151.35 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 10:18 | 7.88 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 10:18 | 18.61 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 10:18 | 11.4 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 10:23 | 403.4 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 10:23 | 0.13 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 10:23 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potention | 8/9/2022 10:23 | -151.87 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 10:23 | 7.88 | SU |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 10:23 | 19.11 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 10:23 | 11.36 | NTU |
| GS-AP-MW-18VR | COND | Conductivity | 8/9/2022 10:28 | 407.14 | uS/cm |
| GS-AP-MW-18VR | DO | DO | 8/9/2022 10:28 | 0.11 | mg/L |
| GS-AP-MW-18VR | DTW | Depth to Water Detail | 8/9/2022 10:28 | 212.52 | ft |
| GS-AP-MW-18VR | ORP | Oxidation Reduction Potention | 8/9/2022 10:28 | -155.28 | mv |
| GS-AP-MW-18VR | PH | pH | 8/9/2022 10:28 | 7.93 | SU |
| GS-AP-MW-18VR | SULFIDE | Sulfide | 8/9/2022 10:28 | 0 | mg/L |
| GS-AP-MW-18VR | TEMP | Temperature | 8/9/2022 10:28 | 19.2 | C |
| GS-AP-MW-18VR | TURB | Turbidity | 8/9/2022 10:28 | 9.87 | NTU |

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWGORAP_1377

Project/Site : Gorgas Ash Pond
Parrish, AL 35580

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Renee Jernigan
rgarner@southernco.com
(205) 664-6247

September 07, 2022


Dear Dustin Brooks,


Enclosed are the analytical results for sample(s) received by the laboratory between July 21, 2022 and August 11, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2023

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Renee Jernigan**  Digitally signed by Renee Jernigan
Date: 2022.09.08 15:26:20 -05'00'

Supervision: **T Durant Maske**  Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske, c=US, United States, +c=US, United States, e=tmaske@southemco.com
Reason: I am the author of this document
Location:
Date: 2022-09-12 09:55:05-00



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Total Metals ICP

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13414 | 732033 | WMWGORAP_1377 |
| BC13415 | 732033 | WMWGORAP_1377 |
| BC13416 | 732033 | WMWGORAP_1377 |
| BC13417 | 732033 | WMWGORAP_1377 |
| BC13418 | 732033 | WMWGORAP_1377 |
| BC13419 | 732033 | WMWGORAP_1377 |
| BC13420 | 732033 | WMWGORAP_1377 |
| BC13421 | 732033 | WMWGORAP_1377 |
| BC13422 | 732033 | WMWGORAP_1377 |
| BC13423 | 732033 | WMWGORAP_1377 |
| BC13424 | 732034 | WMWGORAP_1377 |
| BC13425 | 732034 | WMWGORAP_1377 |
| BC13426 | 732034 | WMWGORAP_1377 |
| BC14020 | 733237 | WMWGORAP_1377 |
| BC14022 | 733237 | WMWGORAP_1377 |
| BC14023 | 733237 | WMWGORAP_1377 |
| BC14024 | 733237 | WMWGORAP_1377 |
| BC14025 | 733237 | WMWGORAP_1377 |
| BC14026 | 733237 | WMWGORAP_1377 |
| BC14027 | 733237 | WMWGORAP_1377 |
| BC14028 | 733237 | WMWGORAP_1377 |
| BC14029 | 733237 | WMWGORAP_1377 |
| BC14030 | 733237 | WMWGORAP_1377 |
| BC14031 | 733238 | WMWGORAP_1377 |
| BC14032 | 733238 | WMWGORAP_1377 |
| BC14033 | 733238 | WMWGORAP_1377 |
| BC14035 | 733238 | WMWGORAP_1377 |
| BC14036 | 733238 | WMWGORAP_1377 |
| BC14037 | 733238 | WMWGORAP_1377 |
| BC14038 | 733238 | WMWGORAP_1377 |
| BC14039 | 733238 | WMWGORAP_1377 |

| | | |
|---------|--------|---------------|
| BC14040 | 733238 | WMWGORAP_1377 |
| BC14041 | 733238 | WMWGORAP_1377 |
| BC14042 | 733239 | WMWGORAP_1377 |
| BC14043 | 733239 | WMWGORAP_1377 |
| BC14044 | 733239 | WMWGORAP_1377 |
| BC14520 | 733304 | WMWGORAP_1377 |
| BC14521 | 733304 | WMWGORAP_1377 |
| BC14522 | 733304 | WMWGORAP_1377 |
| BC14523 | 733304 | WMWGORAP_1377 |
| BC14524 | 733304 | WMWGORAP_1377 |
| BC14525 | 733304 | WMWGORAP_1377 |
| BC14526 | 733304 | WMWGORAP_1377 |
| BC14527 | 733304 | WMWGORAP_1377 |
| BC14528 | 733304 | WMWGORAP_1377 |
| BC14529 | 733304 | WMWGORAP_1377 |
| BC14530 | 733305 | WMWGORAP_1377 |
| BC14531 | 733305 | WMWGORAP_1377 |
| BC14532 | 733305 | WMWGORAP_1377 |
| BC14533 | 733305 | WMWGORAP_1377 |
| BC14534 | 733305 | WMWGORAP_1377 |
| BC14535 | 733305 | WMWGORAP_1377 |
| BC14536 | 733305 | WMWGORAP_1377 |
| BC14537 | 733305 | WMWGORAP_1377 |
| BC14538 | 733305 | WMWGORAP_1377 |
| BC14539 | 733305 | WMWGORAP_1377 |
| BC14540 | 733306 | WMWGORAP_1377 |
| BC14939 | 733953 | WMWGORAP_1377 |
| BC14940 | 733953 | WMWGORAP_1377 |
| BC14941 | 733953 | WMWGORAP_1377 |
| BC14942 | 733953 | WMWGORAP_1377 |
| BC14943 | 733953 | WMWGORAP_1377 |
| BC14944 | 733953 | WMWGORAP_1377 |
| BC14945 | 733953 | WMWGORAP_1377 |
| BC14946 | 733953 | WMWGORAP_1377 |
| BC14947 | 733953 | WMWGORAP_1377 |
| BC14948 | 733953 | WMWGORAP_1377 |
| BC14949 | 733954 | WMWGORAP_1377 |
| BC14950 | 733954 | WMWGORAP_1377 |

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.

6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
 - BC13426, BC14529, BC14539, BC14540 and BC14948 Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC14030 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC14044 Calcium, Iron and Magnesium MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

Case Narrative

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|--------------------------|------------------------|
| BC13414 | Calcium | 10.15 |
| BC13415 | Calcium, Sodium | 10.15 |
| BC13416 | Sodium | 101.5 |
| BC13417 | Sodium | 10.15 |
| BC13419 | Sodium | 10.15 |
| BC13421 | Calcium | 10.15 |
| BC13422 | Calcium | 10.15 |
| BC13424 | Calcium | 10.15 |
| BC13426 | Sodium | 10.15 |
| BC14020 | Sodium | 10.15 |
| BC14022 | Sodium | 10.15 |
| BC14023 | Sodium | 10.15 |
| BC14026 | Sodium | 101.5 |
| BC14027 | Calcium, Sodium | 101.5 |
| BC14028 | Sodium | 10.15 |
| BC14029 | Calcium | 10.15 |
| BC14030 | Calcium | 10.15 |
| BC14031 | Sodium | 10.15 |
| BC14032 | Calcium | 10.15 |
| BC14033 | Sodium | 101.5 |
| BC14035 | Calcium, Iron | 10.15 |
| BC14036 | Calcium, Iron | 10.15 |
| BC14037 | Calcium, Iron | 101.5 |
| BC14038 | Calcium, Sodium | 10.15 |
| BC14040 | Calcium | 10.15 |
| BC14041 | Calcium | 10.15 |
| BC14042 | Calcium | 10.15 |
| BC14044 | Calcium, Iron, Magnesium | 10.15 |
| BC14521 | Calcium, Sodium | 10.15 |
| BC14522 | Sodium, Silicon | 10.15 |
| BC14523 | Sodium | 10.15 |
| BC14525 | Sodium | 10.15 |
| BC14526 | Calcium, Sodium | 10.15 |
| BC14527 | Calcium, Sodium | 10.15 |
| BC14528 | Sodium | 10.15 |
| BC14529 | Sodium | 10.15 |
| BC14530 | Sodium | 10.15 |
| BC14531 | Sodium | 10.15 |
| BC14532 | Sodium | 10.15 |
| BC14533 | Sodium | 10.15 |

Case Narrative

| | | |
|---------|----------------------------|-------|
| BC14535 | Calcium, Magnesium, Sodium | 10.15 |
| BC14536 | Calcium, Magnesium, Sodium | 10.15 |
| BC14537 | Iron | 10.15 |
| BC14538 | Iron | 10.15 |
| BC14539 | Sodium | 10.15 |
| BC14540 | Calcium, Sodium | 10.15 |
| BC14939 | Sodium | 10.15 |
| BC14940 | Sodium | 10.15 |
| BC14941 | Sodium | 10.15 |
| BC14943 | Sodium | 10.15 |
| BC14944 | Sodium | 10.15 |
| BC14945 | Sodium | 10.15 |
| BC14947 | Sodium | 10.15 |
| BC14948 | Sodium | 10.15 |
| BC14949 | Sodium | 10.15 |

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13414 | 732166 | WMWGORAP_1377 |
| BC13415 | 732166 | WMWGORAP_1377 |
| BC13416 | 732166 | WMWGORAP_1377 |
| BC13417 | 732166 | WMWGORAP_1377 |
| BC13419 | 732174 | WMWGORAP_1377 |
| BC13420 | 732166 | WMWGORAP_1377 |
| BC13421 | 732166 | WMWGORAP_1377 |
| BC13422 | 732166 | WMWGORAP_1377 |
| BC13424 | 732166 | WMWGORAP_1377 |
| BC13425 | 732166 | WMWGORAP_1377 |
| BC13426 | 732166 | WMWGORAP_1377 |
| BC14020 | 733623 | WMWGORAP_1377 |
| BC14021 | 733623 | WMWGORAP_1377 |
| BC14022 | 733623 | WMWGORAP_1377 |
| BC14023 | 733623 | WMWGORAP_1377 |
| BC14024 | 733623 | WMWGORAP_1377 |
| BC14026 | 733623 | WMWGORAP_1377 |
| BC14027 | 733623 | WMWGORAP_1377 |
| BC14028 | 733623 | WMWGORAP_1377 |
| BC14029 | 733623 | WMWGORAP_1377 |
| BC14030 | 733623 | WMWGORAP_1377 |
| BC14031 | 733624 | WMWGORAP_1377 |
| BC14032 | 733624 | WMWGORAP_1377 |
| BC14033 | 733624 | WMWGORAP_1377 |
| BC14034 | 733624 | WMWGORAP_1377 |
| BC14035 | 733624 | WMWGORAP_1377 |
| BC14036 | 733624 | WMWGORAP_1377 |
| BC14037 | 733624 | WMWGORAP_1377 |
| BC14038 | 733624 | WMWGORAP_1377 |
| BC14039 | 733624 | WMWGORAP_1377 |
| BC14040 | 733624 | WMWGORAP_1377 |

| | | |
|---------|--------|---------------|
| BC14041 | 733625 | WMWGORAP_1377 |
| BC14042 | 733625 | WMWGORAP_1377 |
| BC14044 | 733625 | WMWGORAP_1377 |
| BC14520 | 733810 | WMWGORAP_1377 |
| BC14521 | 733810 | WMWGORAP_1377 |
| BC14522 | 733810 | WMWGORAP_1377 |
| BC14523 | 733810 | WMWGORAP_1377 |
| BC14524 | 733810 | WMWGORAP_1377 |
| BC14525 | 733810 | WMWGORAP_1377 |
| BC14526 | 733810 | WMWGORAP_1377 |
| BC14527 | 733810 | WMWGORAP_1377 |
| BC14528 | 733810 | WMWGORAP_1377 |
| BC14529 | 733810 | WMWGORAP_1377 |
| BC14530 | 733811 | WMWGORAP_1377 |
| BC14531 | 733811 | WMWGORAP_1377 |
| BC14532 | 733811 | WMWGORAP_1377 |
| BC14533 | 733811 | WMWGORAP_1377 |
| BC14534 | 733811 | WMWGORAP_1377 |
| BC14535 | 733811 | WMWGORAP_1377 |
| BC14536 | 733811 | WMWGORAP_1377 |
| BC14537 | 733811 | WMWGORAP_1377 |
| BC14538 | 733811 | WMWGORAP_1377 |
| BC14539 | 733811 | WMWGORAP_1377 |
| BC14540 | 733812 | WMWGORAP_1377 |
| BC14939 | 733864 | WMWGORAP_1377 |
| BC14940 | 733864 | WMWGORAP_1377 |
| BC14941 | 733864 | WMWGORAP_1377 |
| BC14943 | 733864 | WMWGORAP_1377 |
| BC14944 | 733864 | WMWGORAP_1377 |
| BC14945 | 733864 | WMWGORAP_1377 |
| BC14947 | 733864 | WMWGORAP_1377 |
| BC14948 | 733864 | WMWGORAP_1377 |
| BC14949 | 733864 | WMWGORAP_1377 |

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.

Revision 5

- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met except for the following:
 - BC13419, BC13426, BC14529, BC14539 and BC14949 Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC14030 and BC14040 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC14044 Calcium and Magnesium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC14540 Calcium and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|-----------------|------------------------|
| BC13414 | Calcium | 10.15 |
| BC13415 | Calcium, Sodium | 10.15 |
| BC13416 | Sodium | 101.5 |
| BC13417 | Sodium | 10.15 |
| BC13419 | Sodium | 10.15 |
| BC13421 | Calcium | 10.15 |

Case Narrative

| | | |
|---------|----------------------------|-------|
| BC13422 | Calcium | 10.15 |
| BC13424 | Calcium | 10.15 |
| BC13426 | Sodium | 10.15 |
| BC14020 | Sodium | 10.15 |
| BC14021 | Sodium | 10.15 |
| BC14022 | Sodium | 10.15 |
| BC14023 | Sodium | 10.15 |
| BC14026 | Sodium | 101.5 |
| BC14027 | Calcium, Sodium | 101.5 |
| BC14028 | Sodium | 10.15 |
| BC14029 | Calcium | 10.15 |
| BC14030 | Calcium | 10.15 |
| BC14031 | Sodium | 10.15 |
| BC14032 | Calcium | 10.15 |
| BC14033 | Sodium | 101.5 |
| BC14034 | Sodium | 101.5 |
| BC14035 | Calcium, Iron | 10.15 |
| BC14036 | Calcium, Iron | 10.15 |
| BC14037 | Calcium, Iron | 101.5 |
| BC14038 | Calcium, Sodium | 10.15 |
| BC14040 | Calcium | 10.15 |
| BC14042 | Calcium | 10.15 |
| BC14044 | Calcium, Magnesium | 10.15 |
| BC14521 | Calcium, Sodium | 10.15 |
| BC14522 | Sodium, Silicon | 10.15 |
| BC14523 | Sodium | 10.15 |
| BC14525 | Sodium | 101.5 |
| BC14526 | Calcium, Sodium | 10.15 |
| BC14527 | Calcium, Sodium | 10.15 |
| BC14528 | Sodium | 10.15 |
| BC14529 | Sodium | 10.15 |
| BC14530 | Sodium | 10.15 |
| BC14531 | Sodium | 10.15 |
| BC14532 | Sodium | 10.15 |
| BC14533 | Sodium | 101.5 |
| BC14535 | Calcium, Magnesium, Sodium | 10.15 |
| BC14536 | Calcium, Sodium | 10.15 |
| BC14539 | Sodium | 10.15 |
| BC14540 | Calcium, Sodium | 10.15 |
| BC14939 | Sodium | 10.15 |
| BC14940 | Sodium | 10.15 |

Case Narrative

| | | |
|---------|--------|-------|
| BC14941 | Sodium | 101.5 |
| BC14943 | Sodium | 10.15 |
| BC14944 | Sodium | 10.15 |
| BC14945 | Sodium | 10.15 |
| BC14947 | Sodium | 10.15 |
| BC14948 | Sodium | 10.15 |
| BC14949 | Sodium | 10.15 |

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13414 | 731689 | WMWGORAP_1377 |
| BC13415 | 731689 | WMWGORAP_1377 |
| BC13416 | 731689 | WMWGORAP_1377 |
| BC13417 | 731689 | WMWGORAP_1377 |
| BC13418 | 731689 | WMWGORAP_1377 |
| BC13419 | 731689 | WMWGORAP_1377 |
| BC13420 | 731689 | WMWGORAP_1377 |
| BC13421 | 731689 | WMWGORAP_1377 |
| BC13422 | 731689 | WMWGORAP_1377 |
| BC13423 | 731689 | WMWGORAP_1377 |
| BC13424 | 731690 | WMWGORAP_1377 |
| BC13425 | 731690 | WMWGORAP_1377 |
| BC13426 | 731690 | WMWGORAP_1377 |
| BC14020 | 732983 | WMWGORAP_1377 |
| BC14022 | 732983 | WMWGORAP_1377 |
| BC14023 | 732983 | WMWGORAP_1377 |
| BC14024 | 732983 | WMWGORAP_1377 |
| BC14025 | 732983 | WMWGORAP_1377 |
| BC14026 | 732983 | WMWGORAP_1377 |
| BC14027 | 732983 | WMWGORAP_1377 |
| BC14028 | 732983 | WMWGORAP_1377 |
| BC14029 | 732983 | WMWGORAP_1377 |
| BC14030 | 732983 | WMWGORAP_1377 |
| BC14031 | 732984 | WMWGORAP_1377 |
| BC14032 | 732984 | WMWGORAP_1377 |
| BC14033 | 732984 | WMWGORAP_1377 |
| BC14035 | 732984 | WMWGORAP_1377 |
| BC14036 | 732984 | WMWGORAP_1377 |
| BC14037 | 732984 | WMWGORAP_1377 |
| BC14038 | 732984 | WMWGORAP_1377 |
| BC14039 | 732984 | WMWGORAP_1377 |

| | | |
|---------|--------|---------------|
| BC14040 | 732984 | WMWGORAP_1377 |
| BC14041 | 732984 | WMWGORAP_1377 |
| BC14042 | 732985 | WMWGORAP_1377 |
| BC14043 | 732985 | WMWGORAP_1377 |
| BC14044 | 732985 | WMWGORAP_1377 |
| BC14520 | 733466 | WMWGORAP_1377 |
| BC14521 | 733466 | WMWGORAP_1377 |
| BC14522 | 733466 | WMWGORAP_1377 |
| BC14523 | 733466 | WMWGORAP_1377 |
| BC14524 | 733466 | WMWGORAP_1377 |
| BC14525 | 733466 | WMWGORAP_1377 |
| BC14526 | 733466 | WMWGORAP_1377 |
| BC14527 | 733466 | WMWGORAP_1377 |
| BC14528 | 733466 | WMWGORAP_1377 |
| BC14529 | 733466 | WMWGORAP_1377 |
| BC14530 | 733467 | WMWGORAP_1377 |
| BC14531 | 733467 | WMWGORAP_1377 |
| BC14532 | 733467 | WMWGORAP_1377 |
| BC14533 | 733467 | WMWGORAP_1377 |
| BC14534 | 733467 | WMWGORAP_1377 |
| BC14535 | 733467 | WMWGORAP_1377 |
| BC14536 | 733467 | WMWGORAP_1377 |
| BC14537 | 733467 | WMWGORAP_1377 |
| BC14538 | 733467 | WMWGORAP_1377 |
| BC14539 | 733467 | WMWGORAP_1377 |
| BC14540 | 733468 | WMWGORAP_1377 |
| BC14939 | 734061 | WMWGORAP_1377 |
| BC14940 | 734061 | WMWGORAP_1377 |
| BC14941 | 734061 | WMWGORAP_1377 |
| BC14942 | 734061 | WMWGORAP_1377 |
| BC14943 | 734061 | WMWGORAP_1377 |
| BC14944 | 734061 | WMWGORAP_1377 |
| BC14945 | 734061 | WMWGORAP_1377 |
| BC14946 | 734061 | WMWGORAP_1377 |
| BC14947 | 734061 | WMWGORAP_1377 |
| BC14948 | 734061 | WMWGORAP_1377 |
| BC14949 | 734062 | WMWGORAP_1377 |
| BC14950 | 734062 | WMWGORAP_1377 |

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.

6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC14035 | Manganese | 5.075 |
| BC14036 | Manganese | 5.075 |
| BC14037 | Manganese | 5.075 |
| BC14521 | Aluminum | 5.075 |
| BC14522 | Aluminum | 5.075 |

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13414 | 731843 | WMWGORAP_1377 |
| BC13415 | 731843 | WMWGORAP_1377 |
| BC13416 | 731843 | WMWGORAP_1377 |
| BC13417 | 731843 | WMWGORAP_1377 |
| BC13419 | 731858 | WMWGORAP_1377 |
| BC13420 | 731843 | WMWGORAP_1377 |
| BC13421 | 731843 | WMWGORAP_1377 |
| BC13422 | 731843 | WMWGORAP_1377 |
| BC13424 | 731843 | WMWGORAP_1377 |
| BC13425 | 731843 | WMWGORAP_1377 |
| BC13426 | 731843 | WMWGORAP_1377 |
| BC14020 | 733001 | WMWGORAP_1377 |
| BC14021 | 733001 | WMWGORAP_1377 |
| BC14022 | 733001 | WMWGORAP_1377 |
| BC14023 | 733001 | WMWGORAP_1377 |
| BC14024 | 733001 | WMWGORAP_1377 |
| BC14026 | 733001 | WMWGORAP_1377 |
| BC14027 | 733001 | WMWGORAP_1377 |
| BC14028 | 733001 | WMWGORAP_1377 |
| BC14029 | 733001 | WMWGORAP_1377 |
| BC14030 | 733001 | WMWGORAP_1377 |
| BC14031 | 733002 | WMWGORAP_1377 |
| BC14032 | 733002 | WMWGORAP_1377 |
| BC14033 | 733002 | WMWGORAP_1377 |
| BC14034 | 733002 | WMWGORAP_1377 |
| BC14035 | 733002 | WMWGORAP_1377 |
| BC14036 | 733002 | WMWGORAP_1377 |
| BC14037 | 733002 | WMWGORAP_1377 |
| BC14038 | 733002 | WMWGORAP_1377 |
| BC14039 | 733002 | WMWGORAP_1377 |
| BC14040 | 733002 | WMWGORAP_1377 |

| | | |
|---------|--------|---------------|
| BC14041 | 733003 | WMWGORAP_1377 |
| BC14042 | 733003 | WMWGORAP_1377 |
| BC14044 | 733003 | WMWGORAP_1377 |
| BC14520 | 733379 | WMWGORAP_1377 |
| BC14521 | 733379 | WMWGORAP_1377 |
| BC14522 | 733379 | WMWGORAP_1377 |
| BC14523 | 733379 | WMWGORAP_1377 |
| BC14524 | 733379 | WMWGORAP_1377 |
| BC14525 | 733379 | WMWGORAP_1377 |
| BC14526 | 733379 | WMWGORAP_1377 |
| BC14527 | 733379 | WMWGORAP_1377 |
| BC14528 | 733379 | WMWGORAP_1377 |
| BC14529 | 733379 | WMWGORAP_1377 |
| BC14530 | 733380 | WMWGORAP_1377 |
| BC14531 | 733380 | WMWGORAP_1377 |
| BC14532 | 733380 | WMWGORAP_1377 |
| BC14533 | 733380 | WMWGORAP_1377 |
| BC14534 | 733380 | WMWGORAP_1377 |
| BC14535 | 733380 | WMWGORAP_1377 |
| BC14536 | 733380 | WMWGORAP_1377 |
| BC14537 | 733380 | WMWGORAP_1377 |
| BC14538 | 733380 | WMWGORAP_1377 |
| BC14539 | 733380 | WMWGORAP_1377 |
| BC14540 | 733381 | WMWGORAP_1377 |
| BC14939 | 734018 | WMWGORAP_1377 |
| BC14940 | 734018 | WMWGORAP_1377 |
| BC14941 | 734018 | WMWGORAP_1377 |
| BC14943 | 734018 | WMWGORAP_1377 |
| BC14944 | 734018 | WMWGORAP_1377 |
| BC14945 | 734018 | WMWGORAP_1377 |
| BC14947 | 734018 | WMWGORAP_1377 |
| BC14948 | 734018 | WMWGORAP_1377 |
| BC14949 | 734018 | WMWGORAP_1377 |

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.

Revision 5

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC13419 Selenium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC14040 Barium MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC14035 | Manganese | 5.075 |
| BC14036 | Manganese | 5.075 |
| BC14037 | Manganese | 5.075 |
| BC14521 | Aluminum | 5.075 |

8. The raw data results are shown with dilution factors included.

Mercury

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13414 | 731206 | WMWGORAP_1377 |
| BC13415 | 731206 | WMWGORAP_1377 |
| BC13416 | 731206 | WMWGORAP_1377 |
| BC13417 | 731206 | WMWGORAP_1377 |
| BC13418 | 731206 | WMWGORAP_1377 |
| BC13419 | 731206 | WMWGORAP_1377 |
| BC13420 | 731206 | WMWGORAP_1377 |
| BC13421 | 731206 | WMWGORAP_1377 |
| BC13422 | 731206 | WMWGORAP_1377 |
| BC13423 | 731206 | WMWGORAP_1377 |
| BC13424 | 731207 | WMWGORAP_1377 |
| BC13425 | 731207 | WMWGORAP_1377 |
| BC13426 | 731207 | WMWGORAP_1377 |
| BC14020 | 732772 | WMWGORAP_1377 |
| BC14022 | 732772 | WMWGORAP_1377 |
| BC14023 | 732772 | WMWGORAP_1377 |
| BC14024 | 732772 | WMWGORAP_1377 |
| BC14025 | 732772 | WMWGORAP_1377 |
| BC14026 | 732772 | WMWGORAP_1377 |
| BC14027 | 732772 | WMWGORAP_1377 |
| BC14028 | 732772 | WMWGORAP_1377 |
| BC14029 | 732772 | WMWGORAP_1377 |
| BC14030 | 732772 | WMWGORAP_1377 |
| BC14031 | 732773 | WMWGORAP_1377 |
| BC14032 | 732773 | WMWGORAP_1377 |
| BC14033 | 732773 | WMWGORAP_1377 |
| BC14035 | 732773 | WMWGORAP_1377 |
| BC14036 | 732773 | WMWGORAP_1377 |
| BC14037 | 732773 | WMWGORAP_1377 |
| BC14038 | 732773 | WMWGORAP_1377 |
| BC14039 | 732773 | WMWGORAP_1377 |

| | | |
|---------|--------|---------------|
| BC14040 | 732773 | WMWGORAP_1377 |
| BC14041 | 732773 | WMWGORAP_1377 |
| BC14042 | 732774 | WMWGORAP_1377 |
| BC14043 | 732774 | WMWGORAP_1377 |
| BC14044 | 732774 | WMWGORAP_1377 |
| BC14520 | 733735 | WMWGORAP_1377 |
| BC14521 | 733735 | WMWGORAP_1377 |
| BC14522 | 733735 | WMWGORAP_1377 |
| BC14523 | 733735 | WMWGORAP_1377 |
| BC14524 | 733735 | WMWGORAP_1377 |
| BC14525 | 733735 | WMWGORAP_1377 |
| BC14526 | 733735 | WMWGORAP_1377 |
| BC14527 | 733735 | WMWGORAP_1377 |
| BC14528 | 733735 | WMWGORAP_1377 |
| BC14529 | 733735 | WMWGORAP_1377 |
| BC14530 | 733736 | WMWGORAP_1377 |
| BC14531 | 733736 | WMWGORAP_1377 |
| BC14532 | 733736 | WMWGORAP_1377 |
| BC14533 | 733736 | WMWGORAP_1377 |
| BC14534 | 733736 | WMWGORAP_1377 |
| BC14535 | 733736 | WMWGORAP_1377 |
| BC14536 | 733736 | WMWGORAP_1377 |
| BC14537 | 733736 | WMWGORAP_1377 |
| BC14538 | 733736 | WMWGORAP_1377 |
| BC14539 | 733736 | WMWGORAP_1377 |
| BC14540 | 733737 | WMWGORAP_1377 |
| BC14939 | 733737 | WMWGORAP_1377 |
| BC14940 | 733737 | WMWGORAP_1377 |
| BC14941 | 733737 | WMWGORAP_1377 |
| BC14942 | 733737 | WMWGORAP_1377 |
| BC14943 | 733737 | WMWGORAP_1377 |
| BC14944 | 733737 | WMWGORAP_1377 |
| BC14945 | 733737 | WMWGORAP_1377 |
| BC14946 | 733737 | WMWGORAP_1377 |
| BC14947 | 733737 | WMWGORAP_1377 |
| BC14948 | 733738 | WMWGORAP_1377 |
| BC14949 | 733738 | WMWGORAP_1377 |
| BC14950 | 733738 | WMWGORAP_1377 |

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.

6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.

Dissolved Mercury

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC14021 | 732775 | WMWGORAP_1377 |
| BC14034 | 732775 | WMWGORAP_1377 |

4. All of the above samples were analyzed and prepared by EPA 245.1 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- Due to no filtered method blank (MB) and laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.

Revision 5

7. All samples were analyzed without a dilution factor.

Total Dissolved Solids

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13414 | 731210 | WMWGORAP_1377 |
| BC13415 | 731210 | WMWGORAP_1377 |
| BC13416 | 731210 | WMWGORAP_1377 |
| BC13417 | 731210 | WMWGORAP_1377 |
| BC13418 | 731210 | WMWGORAP_1377 |
| BC13419 | 731210 | WMWGORAP_1377 |
| BC13420 | 731210 | WMWGORAP_1377 |
| BC13421 | 731210 | WMWGORAP_1377 |
| BC13422 | 731210 | WMWGORAP_1377 |
| BC13423 | 731210 | WMWGORAP_1377 |
| BC13424 | 731361 | WMWGORAP_1377 |
| BC13425 | 731361 | WMWGORAP_1377 |
| BC13426 | 731361 | WMWGORAP_1377 |
| BC14020 | 732036 | WMWGORAP_1377 |
| BC14021 | 732036 | WMWGORAP_1377 |
| BC14022 | 732036 | WMWGORAP_1377 |
| BC14023 | 732036 | WMWGORAP_1377 |
| BC14024 | 732036 | WMWGORAP_1377 |
| BC14025 | 732036 | WMWGORAP_1377 |
| BC14026 | 732036 | WMWGORAP_1377 |
| BC14027 | 732036 | WMWGORAP_1377 |
| BC14028 | 732632 | WMWGORAP_1377 |
| BC14029 | 732632 | WMWGORAP_1377 |
| BC14030 | 732632 | WMWGORAP_1377 |
| BC14031 | 732632 | WMWGORAP_1377 |
| BC14032 | 732036 | WMWGORAP_1377 |
| BC14033 | 732036 | WMWGORAP_1377 |
| BC14034 | 732037 | WMWGORAP_1377 |
| BC14035 | 732037 | WMWGORAP_1377 |
| BC14036 | 732037 | WMWGORAP_1377 |
| BC14037 | 732037 | WMWGORAP_1377 |

| | | |
|---------|--------|---------------|
| BC14038 | 732037 | WMWGORAP_1377 |
| BC14039 | 732037 | WMWGORAP_1377 |
| BC14040 | 732037 | WMWGORAP_1377 |
| BC14041 | 732037 | WMWGORAP_1377 |
| BC14042 | 732037 | WMWGORAP_1377 |
| BC14043 | 732037 | WMWGORAP_1377 |
| BC14044 | 732632 | WMWGORAP_1377 |
| BC14520 | 732777 | WMWGORAP_1377 |
| BC14521 | 732777 | WMWGORAP_1377 |
| BC14522 | 732777 | WMWGORAP_1377 |
| BC14523 | 732777 | WMWGORAP_1377 |
| BC14524 | 732777 | WMWGORAP_1377 |
| BC14525 | 732777 | WMWGORAP_1377 |
| BC14526 | 733128 | WMWGORAP_1377 |
| BC14527 | 733128 | WMWGORAP_1377 |
| BC14528 | 732777 | WMWGORAP_1377 |
| BC14529 | 732778 | WMWGORAP_1377 |
| BC14530 | 732778 | WMWGORAP_1377 |
| BC14531 | 732778 | WMWGORAP_1377 |
| BC14532 | 732778 | WMWGORAP_1377 |
| BC14533 | 733128 | WMWGORAP_1377 |
| BC14534 | 732778 | WMWGORAP_1377 |
| BC14535 | 732778 | WMWGORAP_1377 |
| BC14536 | 732778 | WMWGORAP_1377 |
| BC14537 | 732778 | WMWGORAP_1377 |
| BC14538 | 732778 | WMWGORAP_1377 |
| BC14539 | 732778 | WMWGORAP_1377 |
| BC14540 | 733128 | WMWGORAP_1377 |
| BC14939 | 733507 | WMWGORAP_1377 |
| BC14940 | 733507 | WMWGORAP_1377 |
| BC14941 | 733507 | WMWGORAP_1377 |
| BC14942 | 733507 | WMWGORAP_1377 |
| BC14943 | 733508 | WMWGORAP_1377 |
| BC14944 | 733508 | WMWGORAP_1377 |
| BC14945 | 733508 | WMWGORAP_1377 |
| BC14946 | 733508 | WMWGORAP_1377 |
| BC14947 | 733508 | WMWGORAP_1377 |
| BC14948 | 733508 | WMWGORAP_1377 |
| BC14949 | 733508 | WMWGORAP_1377 |
| BC14950 | 733508 | WMWGORAP_1377 |

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC13418
 - BC13423
 - BC14025
 - BC14043
 - BC14942
 - BC14946
 - BC14950

Anions

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|----------------------|-------------------|
| BC13414 | 731962,731966,732784 | WMWGORAP_1377 |
| BC13415 | 731962,731966,732784 | WMWGORAP_1377 |
| BC13416 | 731962,731966,732784 | WMWGORAP_1377 |
| BC13417 | 731962,731966,732784 | WMWGORAP_1377 |
| BC13418 | 731962,731966,732784 | WMWGORAP_1377 |
| BC13419 | 731962,731966,732784 | WMWGORAP_1377 |
| BC13420 | 731962,731966,732784 | WMWGORAP_1377 |
| BC13421 | 731962,731966,732784 | WMWGORAP_1377 |
| BC13422 | 731962,731966,732784 | WMWGORAP_1377 |
| BC13423 | 731962,731966,732784 | WMWGORAP_1377 |
| BC13424 | 731963,731967,732785 | WMWGORAP_1377 |
| BC13425 | 731963,731967,732785 | WMWGORAP_1377 |
| BC13426 | 731963,731967,732785 | WMWGORAP_1377 |
| BC14020 | 733195,733189,732785 | WMWGORAP_1377 |
| BC14021 | 733195,733189,732785 | WMWGORAP_1377 |
| BC14022 | 733195,733189,732785 | WMWGORAP_1377 |
| BC14023 | 733195,733189,732785 | WMWGORAP_1377 |
| BC14024 | 733195,733189,732785 | WMWGORAP_1377 |
| BC14025 | 733195,733189,732785 | WMWGORAP_1377 |
| BC14026 | 733195,733189,732785 | WMWGORAP_1377 |
| BC14027 | 733195,733189,732786 | WMWGORAP_1377 |
| BC14028 | 733195,733189,732786 | WMWGORAP_1377 |
| BC14029 | 733195,733189,732786 | WMWGORAP_1377 |
| BC14030 | 733196,733190,732786 | WMWGORAP_1377 |
| BC14031 | 733196,733190,732786 | WMWGORAP_1377 |
| BC14032 | 733196,733190,732786 | WMWGORAP_1377 |
| BC14033 | 733196,733190,732786 | WMWGORAP_1377 |
| BC14034 | 733196,733190,732786 | WMWGORAP_1377 |
| BC14035 | 733196,733190,732786 | WMWGORAP_1377 |
| BC14036 | 733196,733190,732786 | WMWGORAP_1377 |
| BC14037 | 733196,733190,732787 | WMWGORAP_1377 |

Case Narrative

| | | |
|---------|----------------------|---------------|
| BC14038 | 733196,733190,732787 | WMWGORAP_1377 |
| BC14039 | 733196,733190,732787 | WMWGORAP_1377 |
| BC14040 | 733197,733191,732787 | WMWGORAP_1377 |
| BC14041 | 733197,733191,732787 | WMWGORAP_1377 |
| BC14042 | 733197,733191,732787 | WMWGORAP_1377 |
| BC14043 | 733197,733191,732787 | WMWGORAP_1377 |
| BC14044 | 733197,733191,732787 | WMWGORAP_1377 |
| BC14520 | 733197,733191,733085 | WMWGORAP_1377 |
| BC14521 | 733197,733191,733085 | WMWGORAP_1377 |
| BC14522 | 733197,733191,733085 | WMWGORAP_1377 |
| BC14523 | 733197,733191,733085 | WMWGORAP_1377 |
| BC14524 | 733197,733191,733085 | WMWGORAP_1377 |
| BC14525 | 733198,733192,733085 | WMWGORAP_1377 |
| BC14526 | 733198,733192,733085 | WMWGORAP_1377 |
| BC14527 | 733198,733192,733085 | WMWGORAP_1377 |
| BC14528 | 733198,733192,733085 | WMWGORAP_1377 |
| BC14529 | 733198,733192,733085 | WMWGORAP_1377 |
| BC14530 | 733198,733192,733086 | WMWGORAP_1377 |
| BC14531 | 733198,733192,733086 | WMWGORAP_1377 |
| BC14532 | 733198,733192,733086 | WMWGORAP_1377 |
| BC14533 | 733198,733192,733086 | WMWGORAP_1377 |
| BC14534 | 733198,733192,733086 | WMWGORAP_1377 |
| BC14535 | 733199,733193,733086 | WMWGORAP_1377 |
| BC14536 | 733199,733193,733086 | WMWGORAP_1377 |
| BC14537 | 733199,733193,733086 | WMWGORAP_1377 |
| BC14538 | 733199,733193,733086 | WMWGORAP_1377 |
| BC14539 | 733199,733193,733086 | WMWGORAP_1377 |
| BC14540 | 733199,733193,733087 | WMWGORAP_1377 |
| BC14939 | 733676,733678,734177 | WMWGORAP_1377 |
| BC14940 | 733676,733678,734177 | WMWGORAP_1377 |
| BC14941 | 733676,733678,734177 | WMWGORAP_1377 |
| BC14942 | 733676,733678,734177 | WMWGORAP_1377 |
| BC14943 | 733676,733678,734177 | WMWGORAP_1377 |
| BC14944 | 733676,733678,734177 | WMWGORAP_1377 |
| BC14945 | 733676,733678,734177 | WMWGORAP_1377 |
| BC14946 | 733676,733678,734177 | WMWGORAP_1377 |
| BC14947 | 733676,733678,734177 | WMWGORAP_1377 |
| BC14948 | 733676,733678,734178 | WMWGORAP_1377 |
| BC14949 | 733677,733679,734178 | WMWGORAP_1377 |
| BC14950 | 733677,733679,734178 | WMWGORAP_1377 |

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|--------------------|------------------------|
| BC13414 | Chloride & Sulfate | 2 & 4 |
| BC13416 | Chloride & Sulfate | 20 & 25 |
| BC13417 | Sulfate | 2 |
| BC14020 | Sulfate | 8 |
| BC14021 | Sulfate | 8 |
| BC14023 | Chloride | 3 |
| BC14026 | Chloride & Sulfate | 32 & 32 |
| BC14027 | Chloride & Sulfate | 32 & 40 |
| BC14029 | Sulfate | 2 |
| BC14030 | Sulfate | 2 |
| BC14031 | Chloride & Sulfate | 3 & 2 |

| | | |
|---------|--------------------|---------|
| BC14032 | Sulfate | 2 |
| BC14033 | Chloride | 4 |
| BC14034 | Chloride | 4 |
| BC14035 | Sulfate | 5 |
| BC14036 | Sulfate | 8 |
| BC14037 | Sulfate | 25 |
| BC14038 | Sulfate | 25 |
| BC14039 | Sulfate | 5 |
| BC14042 | Sulfate | 5 |
| BC14044 | Sulfate | 32 |
| BC14523 | Chloride & Sulfate | 8 & 16 |
| BC14525 | Chloride & Sulfate | 3 & 4 |
| BC14526 | Chloride | 3 |
| BC14527 | Sulfate | 16 |
| BC14528 | Chloride & Sulfate | 3 & 16 |
| BC14529 | Chloride & Sulfate | 3 & 20 |
| BC14531 | Chloride | 2 |
| BC14532 | Chloride & Sulfate | 8 & 5 |
| BC14533 | Chloride & Sulfate | 8 & 16 |
| BC14535 | Sulfate | 32 |
| BC14536 | Chloride & Sulfate | 4 & 16 |
| BC14941 | Chloride & Sulfate | 20 & 20 |
| BC14943 | Chloride & Sulfate | 4 & 16 |
| BC14944 | Chloride & Sulfate | 4 & 3 |
| BC14945 | Chloride & Sulfate | 4 & 16 |
| BC14948 | Sulfate | 3 |

8. The raw data results are shown with dilution factors included.

Alkalinity

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13414 | 731873; 731874 | WMWGORAP_1377 |
| BC13415 | 731873; 731874 | WMWGORAP_1377 |
| BC13416 | 731873; 731874 | WMWGORAP_1377 |
| BC13417 | 731873; 731874 | WMWGORAP_1377 |
| BC13419 | 731873; 731874 | WMWGORAP_1377 |
| BC13420 | 731873; 731874 | WMWGORAP_1377 |
| BC13421 | 731873; 731874 | WMWGORAP_1377 |
| BC13422 | 731873; 731874 | WMWGORAP_1377 |
| BC13424 | 731873; 731874 | WMWGORAP_1377 |
| BC13425 | 731873; 731874 | WMWGORAP_1377 |
| BC13426 | 731873; 731874 | WMWGORAP_1377 |
| BC14020 | 732679; 732680 | WMWGORAP_1377 |
| BC14021 | 734300; 734301 | WMWGORAP_1377 |
| BC14022 | 732679; 732680 | WMWGORAP_1377 |
| BC14023 | 732679; 732680 | WMWGORAP_1377 |
| BC14024 | 732679; 732680 | WMWGORAP_1377 |
| BC14026 | 732679; 732680 | WMWGORAP_1377 |
| BC14027 | 732679; 732680 | WMWGORAP_1377 |
| BC14028 | 732679; 732680 | WMWGORAP_1377 |
| BC14029 | 732679; 732680 | WMWGORAP_1377 |
| BC14030 | 732679; 732680 | WMWGORAP_1377 |
| BC14031 | 732679; 732680 | WMWGORAP_1377 |
| BC14032 | 732780; 732781 | WMWGORAP_1377 |
| BC14033 | 732780; 732781 | WMWGORAP_1377 |
| BC14034 | 732780; 732781 | WMWGORAP_1377 |
| BC14035 | 733109; 733110 | WMWGORAP_1377 |
| BC14036 | 733109; 733110 | WMWGORAP_1377 |
| BC14037 | 733109; 733110 | WMWGORAP_1377 |
| BC14038 | 733109; 733110 | WMWGORAP_1377 |
| BC14039 | 733109; 733110 | WMWGORAP_1377 |
| BC14040 | 733109; 733110 | WMWGORAP_1377 |

| | | |
|---------|----------------|---------------|
| BC14041 | 733240; 733241 | WMWGORAP_1377 |
| BC14042 | 733109; 733110 | WMWGORAP_1377 |
| BC14044 | 733240; 733241 | WMWGORAP_1377 |
| BC14520 | 733240; 733241 | WMWGORAP_1377 |
| BC14521 | 733240; 733241 | WMWGORAP_1377 |
| BC14522 | 733718; 733719 | WMWGORAP_1377 |
| BC14523 | 733718; 733719 | WMWGORAP_1377 |
| BC14524 | 733862; 733863 | WMWGORAP_1377 |
| BC14525 | 733862; 733863 | WMWGORAP_1377 |
| BC14526 | 733862; 733863 | WMWGORAP_1377 |
| BC14527 | 733862; 733863 | WMWGORAP_1377 |
| BC14528 | 733718; 733719 | WMWGORAP_1377 |
| BC14529 | 733718; 733719 | WMWGORAP_1377 |
| BC14530 | 733718; 733719 | WMWGORAP_1377 |
| BC14531 | 733862; 733863 | WMWGORAP_1377 |
| BC14532 | 733862; 733863 | WMWGORAP_1377 |
| BC14533 | 733862; 733863 | WMWGORAP_1377 |
| BC14534 | 733240; 733241 | WMWGORAP_1377 |
| BC14535 | 733718; 733719 | WMWGORAP_1377 |
| BC14536 | 733718; 733719 | WMWGORAP_1377 |
| BC14537 | 733862; 733863 | WMWGORAP_1377 |
| BC14538 | 733862; 733863 | WMWGORAP_1377 |
| BC14539 | 733862; 733863 | WMWGORAP_1377 |
| BC14540 | 733862; 733863 | WMWGORAP_1377 |
| BC14939 | 733920; 733921 | WMWGORAP_1377 |
| BC14940 | 733920; 733921 | WMWGORAP_1377 |
| BC14941 | 733920; 733921 | WMWGORAP_1377 |
| BC14943 | 733920; 733921 | WMWGORAP_1377 |
| BC14944 | 734446; 734447 | WMWGORAP_1377 |
| BC14945 | 733920; 733921 | WMWGORAP_1377 |
| BC14947 | 733920; 733921 | WMWGORAP_1377 |
| BC14948 | 733920; 733921 | WMWGORAP_1377 |
| BC14949 | 734446; 734447 | WMWGORAP_1377 |

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.

Revision 5

- A final pH check was analyzed with each batch. The acceptance criteria were met.
 - An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
 - An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
- BC13416
 - BC14026
 - BC14027
 - BC14033
 - BC14034
 - BC14037
 - BC14038
 - BC14044
 - BC14522
 - BC14523
 - BC14525
 - BC14527
 - BC14528
 - BC14529
 - BC14532
 - BC14533
 - BC14535
 - BC14536
 - BC14941
 - BC14943
 - BC14945
8. The following samples had pH>12. Therefore, the calculations for carbonate and bicarbonate are invalid and not reported:
- BC14521

Nitrate-Nitrite

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13414 | 731954 | WMWGORAP_1377 |
| BC13415 | 731954 | WMWGORAP_1377 |
| BC13416 | 731954 | WMWGORAP_1377 |
| BC13417 | 731954 | WMWGORAP_1377 |
| BC13418 | 731954 | WMWGORAP_1377 |
| BC13419 | 731954 | WMWGORAP_1377 |
| BC13420 | 731954 | WMWGORAP_1377 |
| BC13421 | 731954 | WMWGORAP_1377 |
| BC13422 | 731954 | WMWGORAP_1377 |
| BC13423 | 731954 | WMWGORAP_1377 |
| BC13424 | 731955 | WMWGORAP_1377 |
| BC13425 | 731955 | WMWGORAP_1377 |
| BC13426 | 731955 | WMWGORAP_1377 |
| BC14020 | 732123 | WMWGORAP_1377 |
| BC14021 | 732123 | WMWGORAP_1377 |
| BC14022 | 732123 | WMWGORAP_1377 |
| BC14023 | 732123 | WMWGORAP_1377 |
| BC14024 | 732123 | WMWGORAP_1377 |
| BC14025 | 732123 | WMWGORAP_1377 |
| BC14026 | 732123 | WMWGORAP_1377 |
| BC14027 | 732123 | WMWGORAP_1377 |
| BC14028 | 732123 | WMWGORAP_1377 |
| BC14029 | 732123 | WMWGORAP_1377 |
| BC14030 | 732124 | WMWGORAP_1377 |
| BC14031 | 732124 | WMWGORAP_1377 |
| BC14032 | 732124 | WMWGORAP_1377 |
| BC14033 | 732124 | WMWGORAP_1377 |
| BC14034 | 732124 | WMWGORAP_1377 |
| BC14035 | 732124 | WMWGORAP_1377 |
| BC14036 | 732124 | WMWGORAP_1377 |
| BC14037 | 732124 | WMWGORAP_1377 |

| | | |
|---------|--------|---------------|
| BC14038 | 732124 | WMWGORAP_1377 |
| BC14039 | 732124 | WMWGORAP_1377 |
| BC14040 | 732125 | WMWGORAP_1377 |
| BC14041 | 732125 | WMWGORAP_1377 |
| BC14042 | 732125 | WMWGORAP_1377 |
| BC14043 | 732125 | WMWGORAP_1377 |
| BC14044 | 732125 | WMWGORAP_1377 |
| BC14520 | 733272 | WMWGORAP_1377 |
| BC14521 | 733272 | WMWGORAP_1377 |
| BC14522 | 733272 | WMWGORAP_1377 |
| BC14523 | 733272 | WMWGORAP_1377 |
| BC14524 | 733272 | WMWGORAP_1377 |
| BC14525 | 733272 | WMWGORAP_1377 |
| BC14526 | 733272 | WMWGORAP_1377 |
| BC14527 | 733272 | WMWGORAP_1377 |
| BC14528 | 733272 | WMWGORAP_1377 |
| BC14529 | 733272 | WMWGORAP_1377 |
| BC14530 | 733273 | WMWGORAP_1377 |
| BC14531 | 733273 | WMWGORAP_1377 |
| BC14532 | 733273 | WMWGORAP_1377 |
| BC14533 | 733273 | WMWGORAP_1377 |
| BC14534 | 733273 | WMWGORAP_1377 |
| BC14535 | 733273 | WMWGORAP_1377 |
| BC14536 | 733273 | WMWGORAP_1377 |
| BC14537 | 733273 | WMWGORAP_1377 |
| BC14538 | 733273 | WMWGORAP_1377 |
| BC14539 | 733273 | WMWGORAP_1377 |
| BC14540 | 733274 | WMWGORAP_1377 |
| BC14939 | 734239 | WMWGORAP_1377 |
| BC14940 | 734239 | WMWGORAP_1377 |
| BC14941 | 734239 | WMWGORAP_1377 |
| BC14942 | 734239 | WMWGORAP_1377 |
| BC14943 | 734239 | WMWGORAP_1377 |
| BC14944 | 734239 | WMWGORAP_1377 |
| BC14945 | 734239 | WMWGORAP_1377 |
| BC14946 | 734239 | WMWGORAP_1377 |
| BC14947 | 734239 | WMWGORAP_1377 |
| BC14948 | 734239 | WMWGORAP_1377 |
| BC14949 | 734240 | WMWGORAP_1377 |
| BC14950 | 734240 | WMWGORAP_1377 |

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met, except for the following:
 - BC14529 matrix spike recovery was outside of the specification limit.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Gorgas Ash Pond

WMWGORAP_1377

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13414 | 731580 | WMWGORAP_1377 |
| BC13415 | 731580 | WMWGORAP_1377 |
| BC13416 | 731580 | WMWGORAP_1377 |
| BC13417 | 731580 | WMWGORAP_1377 |
| BC13418 | 731580 | WMWGORAP_1377 |
| BC13419 | 731580 | WMWGORAP_1377 |
| BC13420 | 731580 | WMWGORAP_1377 |
| BC13421 | 731580 | WMWGORAP_1377 |
| BC13422 | 731580 | WMWGORAP_1377 |
| BC13423 | 731580 | WMWGORAP_1377 |
| BC13424 | 731581 | WMWGORAP_1377 |
| BC13425 | 731581 | WMWGORAP_1377 |
| BC13426 | 731581 | WMWGORAP_1377 |
| BC14020 | 732675 | WMWGORAP_1377 |
| BC14021 | 732675 | WMWGORAP_1377 |
| BC14022 | 732675 | WMWGORAP_1377 |
| BC14023 | 732675 | WMWGORAP_1377 |
| BC14024 | 732675 | WMWGORAP_1377 |
| BC14025 | 732675 | WMWGORAP_1377 |
| BC14026 | 732675 | WMWGORAP_1377 |
| BC14027 | 732675 | WMWGORAP_1377 |
| BC14028 | 732675 | WMWGORAP_1377 |
| BC14029 | 732675 | WMWGORAP_1377 |
| BC14030 | 732676 | WMWGORAP_1377 |
| BC14031 | 732676 | WMWGORAP_1377 |
| BC14032 | 732676 | WMWGORAP_1377 |
| BC14033 | 732676 | WMWGORAP_1377 |
| BC14034 | 732676 | WMWGORAP_1377 |
| BC14035 | 732676 | WMWGORAP_1377 |
| BC14036 | 732676 | WMWGORAP_1377 |
| BC14037 | 732676 | WMWGORAP_1377 |

| | | |
|---------|--------|---------------|
| BC14038 | 732676 | WMWGORAP_1377 |
| BC14039 | 732676 | WMWGORAP_1377 |
| BC14040 | 732677 | WMWGORAP_1377 |
| BC14041 | 732677 | WMWGORAP_1377 |
| BC14042 | 732677 | WMWGORAP_1377 |
| BC14043 | 732677 | WMWGORAP_1377 |
| BC14044 | 732677 | WMWGORAP_1377 |
| BC14520 | 733207 | WMWGORAP_1377 |
| BC14521 | 733207 | WMWGORAP_1377 |
| BC14522 | 733207 | WMWGORAP_1377 |
| BC14523 | 733207 | WMWGORAP_1377 |
| BC14524 | 733207 | WMWGORAP_1377 |
| BC14525 | 733207 | WMWGORAP_1377 |
| BC14526 | 733207 | WMWGORAP_1377 |
| BC14527 | 733207 | WMWGORAP_1377 |
| BC14528 | 733207 | WMWGORAP_1377 |
| BC14529 | 733207 | WMWGORAP_1377 |
| BC14530 | 733208 | WMWGORAP_1377 |
| BC14531 | 733208 | WMWGORAP_1377 |
| BC14532 | 733208 | WMWGORAP_1377 |
| BC14533 | 733208 | WMWGORAP_1377 |
| BC14534 | 733208 | WMWGORAP_1377 |
| BC14535 | 733208 | WMWGORAP_1377 |
| BC14536 | 733208 | WMWGORAP_1377 |
| BC14537 | 733208 | WMWGORAP_1377 |
| BC14538 | 733208 | WMWGORAP_1377 |
| BC14539 | 733208 | WMWGORAP_1377 |
| BC14540 | 733209 | WMWGORAP_1377 |
| BC14939 | 733539 | WMWGORAP_1377 |
| BC14940 | 733539 | WMWGORAP_1377 |
| BC14941 | 733539 | WMWGORAP_1377 |
| BC14942 | 733539 | WMWGORAP_1377 |
| BC14943 | 733539 | WMWGORAP_1377 |
| BC14944 | 733539 | WMWGORAP_1377 |
| BC14945 | 733539 | WMWGORAP_1377 |
| BC14946 | 733539 | WMWGORAP_1377 |
| BC14947 | 733539 | WMWGORAP_1377 |
| BC14948 | 733539 | WMWGORAP_1377 |
| BC14949 | 733540 | WMWGORAP_1377 |
| BC14950 | 733540 | WMWGORAP_1377 |

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was $<1/2RL$.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were $<1/2RL$.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-09R

Location Code: WMWGORAP
Collected: 7/19/22 14:15
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13414

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:10 | | 1.015 | 0.104 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 14:26 | | 10.15 | 52.0 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:10 | | 1.015 | 1.57 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:10 | | 1.015 | 0.0356 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:10 | | 1.015 | 18.8 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:10 | | 1 | 31.0 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:10 | | 1.015 | 14.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 13:10 | | 1.015 | 26.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 10:47 | | 1.015 | 0.104 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 12:01 | | 10.15 | 47.3 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 10:47 | | 1.015 | 1.49 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 10:47 | | 1.015 | 0.0379 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 10:47 | | 1.015 | 19.0 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 10:47 | | 1 | 31.5 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 10:47 | | 1.015 | 14.7 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/25/22 10:47 | | 1.015 | 27.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | 0.00629 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | 0.0339 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | 0.000384 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | 0.182 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | 0.00308 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | 3.21 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-09R

Location Code: WMWGORAP

Collected: 7/19/22 14:15

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13414

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 19:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | 0.00607 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | 0.0349 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | 0.000229 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | 0.184 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | 0.00290 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | 3.15 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 14:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 20:14 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 14:22 | 7/26/22 14:22 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 127 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | 297 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 127 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | Not Detected | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/25/22 21:30 | 7/25/22 21:30 | | 1 | 1.06 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-09R

Location Code: WMWGORAP

Collected: 7/19/22 14:15

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13414

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:35 | 7/27/22 10:35 | | 2 | 24.5 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:35 | 7/27/22 12:35 | | 1 | 0.245 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:01 | 8/4/22 09:01 | | 4 | 86.6 | mg/L | 2.4 | 8 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/19/22 14:12 | 7/19/22 14:12 | | | 515.16 | uS/cm | | | FA |
| pH | 7/19/22 14:12 | 7/19/22 14:12 | | | 6.31 | SU | | | FA |
| Temperature | 7/19/22 14:12 | 7/19/22 14:12 | | | 19.22 | C | | | FA |
| Turbidity | 7/19/22 14:12 | 7/19/22 14:12 | | | 1.33 | NTU | | | FA |
| Sulfide | 7/19/22 14:12 | 7/19/22 14:12 | | | 1 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 14:15

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-09R

Laboratory ID Number: BC13414

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC13426 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.118 | 0.115 | 0.100 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.58 | 20.0 |
| BC13423 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.102 | 0.100 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0926 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.539 | 20.0 |
| BC13423 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.0994 | 0.100 | 0.0996 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.602 | 20.0 |
| BC13426 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.106 | 0.104 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC13426 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.135 | 0.132 | 0.0971 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.25 | 20.0 |
| BC13423 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.0981 | 0.0994 | 0.0981 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.32 | 20.0 |
| BC13426 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.0968 | 0.0965 | 0.0967 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.310 | 20.0 |
| BC13423 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0997 | 0.0965 | 0.0972 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC13426 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 0.976 | 1.01 | 0.965 | 0.850 to 1.15 | 94.3 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.01 | 0.989 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 2.10 | 20.0 |
| BC13426 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13423 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC13426 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 6.31 | 6.27 | 4.75 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.636 | 20.0 |
| BC13423 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 4.61 | 4.62 | 4.98 | 4.25 to 5.75 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC13423 | Chloride | mg/L | 0.0101 | 1.00 | 10.0 | 10.4 | 10.4 | 10.4 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.101 | 0.0976 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.101 | 0.0997 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13426 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC13423 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Fluoride | mg/L | -0.00383 | 0.125 | 2.50 | 2.74 | 2.86 | 2.65 | 2.25 to 2.75 | 110 | 80.0 to 120 | 4.29 | 20.0 |
| BC13426 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.220 | 0.214 | 0.201 | 0.170 to 0.230 | 101 | 70.0 to 130 | 2.76 | 20.0 |
| BC13423 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.198 | 0.195 | 0.198 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 1.53 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 14:15

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-09R

Laboratory ID Number: BC13414

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13426 | Lead, Dissolved | mg/L | 0.0000055 | 0.000147 | 0.100 | 0.0984 | 0.0976 | 0.100 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.816 | 20.0 |
| BC13423 | Lead, Total | mg/L | 0.0000060 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.247 | 0.241 | 0.191 | 0.170 to 0.230 | 107 | 70.0 to 130 | 2.46 | 20.0 |
| BC13423 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.205 | 0.205 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.21 | 5.18 | 4.67 | 4.25 to 5.75 | 98.1 | 70.0 to 130 | 0.577 | 20.0 |
| BC13423 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 4.93 | 4.93 | 5.00 | 4.25 to 5.75 | 98.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.106 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC13423 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.102 | 0.102 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Mercury, Total by CVAA | mg/L | 0.000000 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC13426 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.102 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 12.1 | 12.0 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.830 | 20.0 |
| BC13423 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 10.5 | 10.5 | 10.2 | 8.50 to 11.5 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.104 | 0.102 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13423 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13426 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 8.16 | 8.13 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.368 | 20.0 |
| BC13423 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 0.995 | 0.985 | 1.00 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.01 | 20.0 |
| BC13426 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 101 | 94.7 | 4.60 | 4.25 to 5.75 | 162 | 70.0 to 130 | 6.44 | 20.0 |
| BC13423 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 5.04 | 5.04 | 4.89 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Sulfate | mg/L | 0.238 | 2.0 | 20.0 | 19.9 | 19.8 | 19.3 | 18.0 to 22.0 | 99.5 | 80.0 to 120 | 0.504 | 20.0 |
| BC13426 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.0963 | 0.0965 | 0.0999 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.207 | 20.0 |
| BC13423 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 8.79 | 8.82 | 8.98 | | 87.9 | 80.0 to 120 | 0.341 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 14:15

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-09R

Laboratory ID Number: BC13414

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13423 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.17 | 0.225 | 1.94 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC13422 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 241 | 50.0 | 40.0 to 60.0 | | | 2.05 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-9V

Location Code: WMWGORAP
Collected: 7/19/22 16:00
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13415

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:13 | | 1.015 | 0.0327 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 14:29 | | 10.15 | 54.7 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:13 | | 1.015 | 0.245 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:13 | | 1.015 | 0.0290 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:13 | | 1.015 | 15.4 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:13 | | 1 | 33.0 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:13 | | 1.015 | 15.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 14:29 | | 10.15 | 52.3 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 10:51 | | 1.015 | 0.0333 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 12:05 | | 10.15 | 49.7 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 10:51 | | 1.015 | 0.256 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 10:51 | | 1.015 | 0.0315 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 10:51 | | 1.015 | 15.1 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 10:51 | | 1 | 33.6 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 10:51 | | 1.015 | 15.7 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/25/22 12:05 | | 10.15 | 41.3 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | 0.000252 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | 0.178 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | 0.000323 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | 0.0352 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | 0.00146 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | 3.05 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-9V

Location Code: WMWGORAP
Collected: 7/19/22 16:00
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13415

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 19:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | 0.000185 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | 0.190 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | 0.000297 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | 0.0343 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | 0.00105 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | 2.89 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | 0.00244 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 20:18 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 14:24 | 7/26/22 14:24 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 242 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | 310 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 241 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 0.61 | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/25/22 21:48 | 7/25/22 21:48 | | 1 | 2.26 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-9V

Location Code: WMWGORAP

Collected: 7/19/22 16:00

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13415

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:22 | 7/27/22 10:22 | | 1 | 18.8 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:37 | 7/27/22 12:37 | | 1 | 0.159 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 08:48 | 8/4/22 08:48 | | 1 | 37.1 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/19/22 15:58 | 7/19/22 15:58 | | | 519.52 | uS/cm | | | FA |
| pH | 7/19/22 15:58 | 7/19/22 15:58 | | | 6.99 | SU | | | FA |
| Temperature | 7/19/22 15:58 | 7/19/22 15:58 | | | 19.64 | C | | | FA |
| Turbidity | 7/19/22 15:58 | 7/19/22 15:58 | | | 0.44 | NTU | | | FA |
| Sulfide | 7/19/22 15:58 | 7/19/22 15:58 | | | 2 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 16:00

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-9V

Laboratory ID Number: BC13415

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC13426 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.118 | 0.115 | 0.100 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.58 | 20.0 |
| BC13423 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.102 | 0.100 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0926 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.539 | 20.0 |
| BC13423 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.0994 | 0.100 | 0.0996 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.602 | 20.0 |
| BC13426 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.106 | 0.104 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC13426 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.135 | 0.132 | 0.0971 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.25 | 20.0 |
| BC13423 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.0981 | 0.0994 | 0.0981 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.32 | 20.0 |
| BC13426 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.0968 | 0.0965 | 0.0967 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.310 | 20.0 |
| BC13423 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0997 | 0.0965 | 0.0972 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC13426 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 0.976 | 1.01 | 0.965 | 0.850 to 1.15 | 94.3 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.01 | 0.989 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 2.10 | 20.0 |
| BC13426 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13423 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC13426 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 6.31 | 6.27 | 4.75 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.636 | 20.0 |
| BC13423 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 4.61 | 4.62 | 4.98 | 4.25 to 5.75 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC13423 | Chloride | mg/L | 0.0101 | 1.00 | 10.0 | 10.4 | 10.4 | 10.4 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.101 | 0.0976 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.101 | 0.0997 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13426 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC13423 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Fluoride | mg/L | -0.00383 | 0.125 | 2.50 | 2.74 | 2.86 | 2.65 | 2.25 to 2.75 | 110 | 80.0 to 120 | 4.29 | 20.0 |
| BC13426 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.220 | 0.214 | 0.201 | 0.170 to 0.230 | 101 | 70.0 to 130 | 2.76 | 20.0 |
| BC13423 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.198 | 0.195 | 0.198 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 1.53 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 16:00

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-9V

Laboratory ID Number: BC13415

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13426 | Lead, Dissolved | mg/L | 0.0000055 | 0.000147 | 0.100 | 0.0984 | 0.0976 | 0.100 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.816 | 20.0 |
| BC13423 | Lead, Total | mg/L | 0.0000060 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.247 | 0.241 | 0.191 | 0.170 to 0.230 | 107 | 70.0 to 130 | 2.46 | 20.0 |
| BC13423 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.205 | 0.205 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.21 | 5.18 | 4.67 | 4.25 to 5.75 | 98.1 | 70.0 to 130 | 0.577 | 20.0 |
| BC13423 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 4.93 | 4.93 | 5.00 | 4.25 to 5.75 | 98.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.106 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC13423 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.102 | 0.102 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Mercury, Total by CVAA | mg/L | 0.0000000 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC13426 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.102 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 12.1 | 12.0 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.830 | 20.0 |
| BC13423 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 10.5 | 10.5 | 10.2 | 8.50 to 11.5 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.104 | 0.102 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13423 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13426 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 8.16 | 8.13 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.368 | 20.0 |
| BC13423 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 0.995 | 0.985 | 1.00 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.01 | 20.0 |
| BC13426 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 101 | 94.7 | 4.60 | 4.25 to 5.75 | 162 | 70.0 to 130 | 6.44 | 20.0 |
| BC13423 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 5.04 | 5.04 | 4.89 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Sulfate | mg/L | 0.238 | 2.0 | 20.0 | 19.9 | 19.8 | 19.3 | 18.0 to 22.0 | 99.5 | 80.0 to 120 | 0.504 | 20.0 |
| BC13426 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.0963 | 0.0965 | 0.0999 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.207 | 20.0 |
| BC13423 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 8.79 | 8.82 | 8.98 | | 87.9 | 80.0 to 120 | 0.341 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 16:00

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-9V

Laboratory ID Number: BC13415

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13423 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.17 | 0.225 | 1.94 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC13422 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 241 | 50.0 | 40.0 to 60.0 | | | 2.05 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-03V

Location Code: WMWGORAP
Collected: 7/20/22 10:05
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13416

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:16 | | 1.015 | 0.148 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 13:16 | | 1.015 | 22.1 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:16 | | 1.015 | 0.492 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:16 | | 1.015 | 0.0710 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:16 | | 1.015 | 8.01 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:16 | | 1 | 13.7 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:16 | | 1.015 | 6.42 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 14:32 | | 101.5 | 593 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 10:54 | | 1.015 | 0.123 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 10:54 | | 1.015 | 18.2 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 10:54 | | 1.015 | 0.255 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 10:54 | | 1.015 | 0.0838 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 10:54 | | 1.015 | 6.22 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 10:54 | | 1 | 14.8 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 10:54 | | 1.015 | 6.93 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/29/22 15:58 | | 101.5 | 449 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | 0.0269 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | 0.00228 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | 0.0815 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | 0.000397 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | 0.000249 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | 0.0000723 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | 0.0608 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | 0.0489 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | 51.3 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-03V

Location Code: WMWGORAP
Collected: 7/20/22 10:05
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13416

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 19:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | 0.00141 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | 0.0558 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | 0.000258 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | 0.000161 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | 0.0429 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | 0.0344 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | 35.6 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | 0.000581 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 15:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 20:22 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 14:26 | 7/26/22 14:26 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 267 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | 1520 | mg/L | | 125 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 266 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 1.20 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/25/22 22:07 | 7/25/22 22:07 | | 1 | 12.8 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-03V

Location Code: WMWGORAP
Collected: 7/20/22 10:05
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13416

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:48 | 7/27/22 10:48 | | 20 | 399 | mg/L | 10.00 | 20 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:38 | 7/27/22 12:38 | | 1 | 0.231 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:03 | 8/4/22 09:03 | | 25 | 454 | mg/L | 15.0 | 50 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/20/22 10:02 | 7/20/22 10:02 | | | 3180.39 | uS/cm | | | FA |
| pH | 7/20/22 10:02 | 7/20/22 10:02 | | | 7.41 | SU | | | FA |
| Temperature | 7/20/22 10:02 | 7/20/22 10:02 | | | 20.41 | C | | | FA |
| Turbidity | 7/20/22 10:02 | 7/20/22 10:02 | | | 3.31 | NTU | | | FA |
| Sulfide | 7/20/22 10:02 | 7/20/22 10:02 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 10:05

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-03V

Laboratory ID Number: BC13416

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13426 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.118 | 0.115 | 0.100 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.58 | 20.0 |
| BC13423 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.102 | 0.100 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0926 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.539 | 20.0 |
| BC13423 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.0994 | 0.100 | 0.0996 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.602 | 20.0 |
| BC13426 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.106 | 0.104 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC13426 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.135 | 0.132 | 0.0971 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.25 | 20.0 |
| BC13423 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.0981 | 0.0994 | 0.0981 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.32 | 20.0 |
| BC13426 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.0968 | 0.0965 | 0.0967 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.310 | 20.0 |
| BC13423 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0997 | 0.0965 | 0.0972 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC13426 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 0.976 | 1.01 | 0.965 | 0.850 to 1.15 | 94.3 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.01 | 0.989 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 2.10 | 20.0 |
| BC13426 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13423 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC13426 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 6.31 | 6.27 | 4.75 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.636 | 20.0 |
| BC13423 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 4.61 | 4.62 | 4.98 | 4.25 to 5.75 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC13423 | Chloride | mg/L | 0.0101 | 1.00 | 10.0 | 10.4 | 10.4 | 10.4 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.101 | 0.0976 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.101 | 0.0997 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13426 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC13423 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Fluoride | mg/L | -0.00383 | 0.125 | 2.50 | 2.74 | 2.86 | 2.65 | 2.25 to 2.75 | 110 | 80.0 to 120 | 4.29 | 20.0 |
| BC13426 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.220 | 0.214 | 0.201 | 0.170 to 0.230 | 101 | 70.0 to 130 | 2.76 | 20.0 |
| BC13423 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.198 | 0.195 | 0.198 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 1.53 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 10:05

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-03V

Laboratory ID Number: BC13416

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13426 | Lead, Dissolved | mg/L | 0.000055 | 0.000147 | 0.100 | 0.0984 | 0.0976 | 0.100 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.816 | 20.0 |
| BC13423 | Lead, Total | mg/L | 0.000060 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.247 | 0.241 | 0.191 | 0.170 to 0.230 | 107 | 70.0 to 130 | 2.46 | 20.0 |
| BC13423 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.205 | 0.205 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.21 | 5.18 | 4.67 | 4.25 to 5.75 | 98.1 | 70.0 to 130 | 0.577 | 20.0 |
| BC13423 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 4.93 | 4.93 | 5.00 | 4.25 to 5.75 | 98.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.106 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC13423 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.102 | 0.102 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Mercury, Total by CVAA | mg/L | 0.000000 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC13426 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.102 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 12.1 | 12.0 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.830 | 20.0 |
| BC13423 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 10.5 | 10.5 | 10.2 | 8.50 to 11.5 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.104 | 0.102 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13423 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13426 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 8.16 | 8.13 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.368 | 20.0 |
| BC13423 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 0.995 | 0.985 | 1.00 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.01 | 20.0 |
| BC13426 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 101 | 94.7 | 4.60 | 4.25 to 5.75 | 162 | 70.0 to 130 | 6.44 | 20.0 |
| BC13423 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 5.04 | 5.04 | 4.89 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Sulfate | mg/L | 0.238 | 2.0 | 20.0 | 19.9 | 19.8 | 19.3 | 18.0 to 22.0 | 99.5 | 80.0 to 120 | 0.504 | 20.0 |
| BC13426 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.0963 | 0.0965 | 0.0999 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.207 | 20.0 |
| BC13423 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 8.79 | 8.82 | 8.98 | | 87.9 | 80.0 to 120 | 0.341 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 10:05

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-03V

Laboratory ID Number: BC13416

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|------|-------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13423 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.17 | 0.225 | 1.94 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC13422 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 241 | 50.0 | 40.0 to 60.0 | | | 2.05 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-3

Location Code: WMWGORAP
Collected: 7/20/22 11:45
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13417

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:19 | | 1.015 | 0.292 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 13:19 | | 1.015 | 17.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:19 | | 1.015 | 1.74 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:19 | | 1.015 | 0.0700 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:19 | | 1.015 | 7.29 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:19 | | 1 | 11.4 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:19 | | 1.015 | 5.34 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 14:34 | | 10.15 | 97.8 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 10:58 | | 1.015 | 0.335 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 10:58 | | 1.015 | 22.4 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 10:58 | | 1.015 | 2.44 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 10:58 | | 1.015 | 0.0814 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 10:58 | | 1.015 | 8.94 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 10:58 | | 1 | 12.1 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 10:58 | | 1.015 | 5.65 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/25/22 12:11 | | 10.15 | 76.0 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | 0.0222 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | 0.000137 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | 0.492 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | 0.000315 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | 0.0956 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | 0.00660 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | 1.13 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-3

Location Code: WMWGORAP
Collected: 7/20/22 11:45
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13417

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 19:32 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | 0.000167 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | 0.504 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | 0.000217 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | 0.127 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | 0.00830 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | 1.25 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 20:26 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 14:28 | 7/26/22 14:28 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 173 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | 294 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 171 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 1.69 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/25/22 22:28 | 7/25/22 22:28 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-3

Location Code: WMWGORAP

Collected: 7/20/22 11:45

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13417

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:24 | 7/27/22 10:24 | | 1 | 15.3 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:39 | 7/27/22 12:39 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:04 | 8/4/22 09:04 | | 2 | 78.6 | mg/L | 1.2 | 4 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/20/22 11:43 | 7/20/22 11:43 | | | 467.18 | uS/cm | | | FA |
| pH | 7/20/22 11:43 | 7/20/22 11:43 | | | 8.10 | SU | | | FA |
| Temperature | 7/20/22 11:43 | 7/20/22 11:43 | | | 20.22 | C | | | FA |
| Turbidity | 7/20/22 11:43 | 7/20/22 11:43 | | | 0.6 | NTU | | | FA |
| Sulfide | 7/20/22 11:43 | 7/20/22 11:43 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 11:45

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-3

Laboratory ID Number: BC13417

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC13426 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.118 | 0.115 | 0.100 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.58 | 20.0 |
| BC13423 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.102 | 0.100 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0926 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.539 | 20.0 |
| BC13423 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.0994 | 0.100 | 0.0996 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.602 | 20.0 |
| BC13426 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.106 | 0.104 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC13426 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.135 | 0.132 | 0.0971 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.25 | 20.0 |
| BC13423 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.0981 | 0.0994 | 0.0981 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.32 | 20.0 |
| BC13426 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.0968 | 0.0965 | 0.0967 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.310 | 20.0 |
| BC13423 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0997 | 0.0965 | 0.0972 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC13426 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 0.976 | 1.01 | 0.965 | 0.850 to 1.15 | 94.3 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.01 | 0.989 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 2.10 | 20.0 |
| BC13426 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13423 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC13426 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 6.31 | 6.27 | 4.75 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.636 | 20.0 |
| BC13423 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 4.61 | 4.62 | 4.98 | 4.25 to 5.75 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC13423 | Chloride | mg/L | 0.0101 | 1.00 | 10.0 | 10.4 | 10.4 | 10.4 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.101 | 0.0976 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.101 | 0.0997 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13426 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC13423 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Fluoride | mg/L | -0.00383 | 0.125 | 2.50 | 2.74 | 2.86 | 2.65 | 2.25 to 2.75 | 110 | 80.0 to 120 | 4.29 | 20.0 |
| BC13426 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.220 | 0.214 | 0.201 | 0.170 to 0.230 | 101 | 70.0 to 130 | 2.76 | 20.0 |
| BC13423 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.198 | 0.195 | 0.198 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 1.53 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 11:45

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-3

Laboratory ID Number: BC13417

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13426 | Lead, Dissolved | mg/L | 0.000055 | 0.000147 | 0.100 | 0.0984 | 0.0976 | 0.100 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.816 | 20.0 |
| BC13423 | Lead, Total | mg/L | 0.000060 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.247 | 0.241 | 0.191 | 0.170 to 0.230 | 107 | 70.0 to 130 | 2.46 | 20.0 |
| BC13423 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.205 | 0.205 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.21 | 5.18 | 4.67 | 4.25 to 5.75 | 98.1 | 70.0 to 130 | 0.577 | 20.0 |
| BC13423 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 4.93 | 4.93 | 5.00 | 4.25 to 5.75 | 98.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.106 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC13423 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.102 | 0.102 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Mercury, Total by CVAA | mg/L | 0.000000 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC13426 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.102 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 12.1 | 12.0 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.830 | 20.0 |
| BC13423 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 10.5 | 10.5 | 10.2 | 8.50 to 11.5 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.104 | 0.102 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13423 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13426 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 8.16 | 8.13 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.368 | 20.0 |
| BC13423 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 0.995 | 0.985 | 1.00 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.01 | 20.0 |
| BC13426 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 101 | 94.7 | 4.60 | 4.25 to 5.75 | 162 | 70.0 to 130 | 6.44 | 20.0 |
| BC13423 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 5.04 | 5.04 | 4.89 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Sulfate | mg/L | 0.238 | 2.0 | 20.0 | 19.9 | 19.8 | 19.3 | 18.0 to 22.0 | 99.5 | 80.0 to 120 | 0.504 | 20.0 |
| BC13426 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.0963 | 0.0965 | 0.0999 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.207 | 20.0 |
| BC13423 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 8.79 | 8.82 | 8.98 | | 87.9 | 80.0 to 120 | 0.341 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 11:45

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-3

Laboratory ID Number: BC13417

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|-----|-------------|------|------------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13423 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.17 | 0.225 | 1.94 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC13422 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 241 | 50.0 | 40.0 to 60.0 | | | 2.05 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-2

Location Code: WMWGORAPFB
Collected: 7/20/22 12:30
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13418

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:22 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 13:22 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:22 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:22 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:22 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:22 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:22 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 13:22 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | 0.000311 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: CRB | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 20:30 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: CES | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 14:29 | 7/26/22 14:29 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-2

Location Code: WMWGORAPFB
Collected: 7/20/22 12:30
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13418

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/25/22 22:50 | 7/25/22 22:50 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:34 | 7/27/22 10:34 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:40 | 7/27/22 12:40 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 08:52 | 8/4/22 08:52 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/20/22 12:30

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond Field Blank-2

Laboratory ID Number: BC13418

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13423 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.102 | 0.100 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13423 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.0994 | 0.100 | 0.0996 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.602 | 20.0 |
| BC13423 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.106 | 0.104 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC13423 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.0981 | 0.0994 | 0.0981 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.32 | 20.0 |
| BC13423 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0997 | 0.0965 | 0.0972 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC13423 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.01 | 0.989 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 2.10 | 20.0 |
| BC13423 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC13423 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 4.61 | 4.62 | 4.98 | 4.25 to 5.75 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC13423 | Chloride | mg/L | 0.0101 | 1.00 | 10.0 | 10.4 | 10.4 | 10.4 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC13423 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.101 | 0.0997 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13423 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Fluoride | mg/L | -0.00383 | 0.125 | 2.50 | 2.74 | 2.86 | 2.65 | 2.25 to 2.75 | 110 | 80.0 to 120 | 4.29 | 20.0 |
| BC13423 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.198 | 0.195 | 0.198 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 1.53 | 20.0 |
| BC13423 | Lead, Total | mg/L | 0.0000060 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.205 | 0.205 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 4.93 | 4.93 | 5.00 | 4.25 to 5.75 | 98.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.102 | 0.102 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Mercury, Total by CVAA | mg/L | 0.0000000 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC13423 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 10.5 | 10.5 | 10.2 | 8.50 to 11.5 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 0.995 | 0.985 | 1.00 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.01 | 20.0 |
| BC13423 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 5.04 | 5.04 | 4.89 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Sulfate | mg/L | 0.238 | 2.0 | 20.0 | 19.9 | 19.8 | 19.3 | 18.0 to 22.0 | 99.5 | 80.0 to 120 | 0.504 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/20/22 12:30

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond Field Blank-2

Laboratory ID Number: BC13418

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | |
|---------|----------------------|-------|------------|----------|-------|-------|-------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | Limit |
| BC13423 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 8.79 | 8.82 | 8.98 | | 87.9 | 80.0 to 120 | 0.341 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/20/22 12:30

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond Field Blank-2

Laboratory ID Number: BC13418

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC13423 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.17 | 0.225 | 1.94 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC13422 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 241 | 50.0 | 40.0 to 60.0 | | | 2.05 | 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-2

Location Code: WMWGORAP
Collected: 7/19/22 09:41
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13419

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:24 | | 1.015 | 0.106 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 13:24 | | 1.015 | 0.359 | mg/L | 0.070035 | 0.406 | J |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:24 | | 1.015 | 0.0494 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:24 | | 1.015 | 0.033 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:24 | | 1.015 | 0.114 | mg/L | 0.021315 | 0.406 | J |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:24 | | 1 | 11.2 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:24 | | 1.015 | 5.23 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 14:37 | | 10.15 | 141 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 11:35 | | 1.015 | 0.107 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 11:35 | | 1.015 | 0.407 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 11:35 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 11:35 | | 1.015 | 0.0369 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 11:35 | | 1.015 | 0.109 | mg/L | 0.021315 | 0.406 | J |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 11:35 | | 1 | 11.2 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 11:35 | | 1.015 | 5.25 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/25/22 12:35 | | 10.15 | 118 | mg/L | 0.3045 | 4.06 | RA |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | 0.0993 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | 0.0000833 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | 0.0474 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | 0.000469 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | 0.000808 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | 0.00146 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | 0.363 | mg/L | 0.169505 | 0.5075 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-2

Location Code: WMWGORAP
Collected: 7/19/22 09:41
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13419

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 19:39 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | 0.00726 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | 0.0447 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | 0.000524 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | 0.00155 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | 0.346 | mg/L | 0.169505 | 0.5075 | J |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | 0.00119 | mg/L | 0.000508 | 0.001015 | R |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 15:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 20:34 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 14:31 | 7/26/22 14:31 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 272 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | 262 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 213 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 57.7 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/25/22 23:06 | 7/25/22 23:06 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-2

Location Code: WMWGORAP

Collected: 7/19/22 09:41

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13419

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:25 | 7/27/22 10:25 | | 1 | 4.42 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:41 | 7/27/22 12:41 | | 1 | 0.752 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 08:53 | 8/4/22 08:53 | | 1 | 19.4 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/19/22 09:37 | 7/19/22 09:37 | | | 415.07 | uS/cm | | | FA |
| pH | 7/19/22 09:37 | 7/19/22 09:37 | | | 9.60 | SU | | | FA |
| Temperature | 7/19/22 09:37 | 7/19/22 09:37 | | | 19.03 | C | | | FA |
| Turbidity | 7/19/22 09:37 | 7/19/22 09:37 | | | 1.26 | NTU | | | FA |
| Sulfide | 7/19/22 09:37 | 7/19/22 09:37 | | | 1.0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 09:41

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: BC13419

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13419 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.107 | 0.101 | 0.100 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.77 | 20.0 |
| BC13423 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.102 | 0.100 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13419 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0935 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.429 | 20.0 |
| BC13423 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.0994 | 0.100 | 0.0996 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.602 | 20.0 |
| BC13419 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.101 | 0.0993 | 0.104 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.70 | 20.0 |
| BC13423 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.106 | 0.104 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC13419 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.141 | 0.138 | 0.0971 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 2.15 | 20.0 |
| BC13423 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.0981 | 0.0994 | 0.0981 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.32 | 20.0 |
| BC13419 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.102 | 0.100 | 0.0967 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13423 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0997 | 0.0965 | 0.0972 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC13419 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 1.09 | 1.08 | 0.965 | 0.850 to 1.15 | 98.3 | 70.0 to 130 | 0.922 | 20.0 |
| BC13423 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.01 | 0.989 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 2.10 | 20.0 |
| BC13419 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.100 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.92 | 20.0 |
| BC13423 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC13419 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 5.69 | 5.66 | 4.75 | 4.25 to 5.75 | 106 | 70.0 to 130 | 0.529 | 20.0 |
| BC13423 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 4.61 | 4.62 | 4.98 | 4.25 to 5.75 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC13423 | Chloride | mg/L | 0.0101 | 1.00 | 10.0 | 10.4 | 10.4 | 10.4 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC13419 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.100 | 0.0948 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 5.34 | 20.0 |
| BC13423 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.101 | 0.0997 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13419 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.106 | 0.0991 | 0.104 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 6.73 | 20.0 |
| BC13423 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Fluoride | mg/L | -0.00383 | 0.125 | 2.50 | 2.74 | 2.86 | 2.65 | 2.25 to 2.75 | 110 | 80.0 to 120 | 4.29 | 20.0 |
| BC13419 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.211 | 0.209 | 0.201 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.952 | 20.0 |
| BC13423 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.198 | 0.195 | 0.198 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 1.53 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 09:41

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: BC13419

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13419 | Lead, Dissolved | mg/L | 0.0000055 | 0.000147 | 0.100 | 0.0999 | 0.0987 | 0.100 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 1.21 | 20.0 |
| BC13423 | Lead, Total | mg/L | 0.0000060 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13419 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.256 | 0.253 | 0.191 | 0.170 to 0.230 | 110 | 70.0 to 130 | 1.18 | 20.0 |
| BC13423 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.205 | 0.205 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13419 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.27 | 5.22 | 4.67 | 4.25 to 5.75 | 103 | 70.0 to 130 | 0.953 | 20.0 |
| BC13423 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 4.93 | 4.93 | 5.00 | 4.25 to 5.75 | 98.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13419 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.104 | 0.0961 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 7.90 | 20.0 |
| BC13423 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.102 | 0.102 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Mercury, Total by CVAA | mg/L | 0.0000000 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC13419 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.104 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13419 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 10.2 | 10.1 | 10.3 | 8.50 to 11.5 | 98.5 | 70.0 to 130 | 0.985 | 20.0 |
| BC13423 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 10.5 | 10.5 | 10.2 | 8.50 to 11.5 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13419 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.0753 | 0.0686 | 0.106 | 0.0850 to 0.115 | 74.1 | 70.0 to 130 | 9.31 | 20.0 |
| BC13423 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13419 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 6.25 | 6.24 | 1.01 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.160 | 20.0 |
| BC13423 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 0.995 | 0.985 | 1.00 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.01 | 20.0 |
| BC13419 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 121 | 122 | 4.60 | 4.25 to 5.75 | 60.0 | 70.0 to 130 | 0.823 | 20.0 |
| BC13423 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 5.04 | 5.04 | 4.89 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Sulfate | mg/L | 0.238 | 2.0 | 20.0 | 19.9 | 19.8 | 19.3 | 18.0 to 22.0 | 99.5 | 80.0 to 120 | 0.504 | 20.0 |
| BC13419 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.100 | 0.0975 | 0.0999 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.53 | 20.0 |
| BC13423 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 8.79 | 8.82 | 8.98 | | 87.9 | 80.0 to 120 | 0.341 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 09:41

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-2

Laboratory ID Number: BC13419

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13423 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.17 | 0.225 | 1.94 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC13422 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 241 | 50.0 | 40.0 to 60.0 | | | 2.05 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12

Location Code: WMWGORAP
Collected: 7/19/22 12:31
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13420

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:27 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 13:27 | | 1.015 | 37.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:27 | | 1.015 | 0.376 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:27 | | 1.015 | 0.0631 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:27 | | 1.015 | 10.8 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:27 | | 1 | 19.6 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:27 | | 1.015 | 9.15 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 13:27 | | 1.015 | 23.3 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 11:01 | | 1.015 | 0.0322 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 11:01 | | 1.015 | 38.1 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 11:01 | | 1.015 | 0.0811 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 11:01 | | 1.015 | 0.0830 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 11:01 | | 1.015 | 10.4 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 11:01 | | 1 | 19.9 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 11:01 | | 1.015 | 9.29 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/25/22 11:01 | | 1.015 | 26.4 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | 0.00556 | mg/L | 0.000508 | 0.001015 | |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | 0.00407 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | 0.188 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | 0.000322 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | 0.0323 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | 0.0112 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | 2.22 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12

Location Code: WMWGORAP
Collected: 7/19/22 12:31
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13420

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | 0.00679 | mg/L | 0.000508 | 0.001015 | |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | 0.00384 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | 0.178 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | 0.000262 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | 0.0259 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | 0.0135 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | 2.62 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 15:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 20:38 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 14:33 | 7/26/22 14:33 | | 1 | 0.202 | mg/L as N | 0.20 | 0.3 | J |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 221 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | 199 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 215 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 5.70 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/25/22 23:31 | 7/25/22 23:31 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12

Location Code: WMWGORAP

Collected: 7/19/22 12:31

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13420

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:27 | 7/27/22 10:27 | | 1 | 2.99 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:43 | 7/27/22 12:43 | | 1 | 0.0983 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 08:54 | 8/4/22 08:54 | | 1 | 18.5 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/19/22 12:28 | 7/19/22 12:28 | | | 313.53 | uS/cm | | | FA |
| pH | 7/19/22 12:28 | 7/19/22 12:28 | | | 8.79 | SU | | | FA |
| Temperature | 7/19/22 12:28 | 7/19/22 12:28 | | | 21.13 | C | | | FA |
| Turbidity | 7/19/22 12:28 | 7/19/22 12:28 | | | 0.68 | NTU | | | FA |
| Sulfide | 7/19/22 12:28 | 7/19/22 12:28 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 12:31

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: BC13420

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13426 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.118 | 0.115 | 0.100 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.58 | 20.0 |
| BC13423 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.102 | 0.100 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0926 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.539 | 20.0 |
| BC13423 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.0994 | 0.100 | 0.0996 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.602 | 20.0 |
| BC13426 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.106 | 0.104 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC13426 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.135 | 0.132 | 0.0971 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.25 | 20.0 |
| BC13423 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.0981 | 0.0994 | 0.0981 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.32 | 20.0 |
| BC13426 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.0968 | 0.0965 | 0.0967 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.310 | 20.0 |
| BC13423 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0997 | 0.0965 | 0.0972 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC13426 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 0.976 | 1.01 | 0.965 | 0.850 to 1.15 | 94.3 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.01 | 0.989 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 2.10 | 20.0 |
| BC13426 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13423 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC13426 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 6.31 | 6.27 | 4.75 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.636 | 20.0 |
| BC13423 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 4.61 | 4.62 | 4.98 | 4.25 to 5.75 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC13423 | Chloride | mg/L | 0.0101 | 1.00 | 10.0 | 10.4 | 10.4 | 10.4 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.101 | 0.0976 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.101 | 0.0997 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13426 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC13423 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Fluoride | mg/L | -0.00383 | 0.125 | 2.50 | 2.74 | 2.86 | 2.65 | 2.25 to 2.75 | 110 | 80.0 to 120 | 4.29 | 20.0 |
| BC13426 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.220 | 0.214 | 0.201 | 0.170 to 0.230 | 101 | 70.0 to 130 | 2.76 | 20.0 |
| BC13423 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.198 | 0.195 | 0.198 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 1.53 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 12:31

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: BC13420

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13426 | Lead, Dissolved | mg/L | 0.0000055 | 0.000147 | 0.100 | 0.0984 | 0.0976 | 0.100 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.816 | 20.0 |
| BC13423 | Lead, Total | mg/L | 0.0000060 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.247 | 0.241 | 0.191 | 0.170 to 0.230 | 107 | 70.0 to 130 | 2.46 | 20.0 |
| BC13423 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.205 | 0.205 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.21 | 5.18 | 4.67 | 4.25 to 5.75 | 98.1 | 70.0 to 130 | 0.577 | 20.0 |
| BC13423 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 4.93 | 4.93 | 5.00 | 4.25 to 5.75 | 98.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.106 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC13423 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.102 | 0.102 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Mercury, Total by CVAA | mg/L | 0.000000 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC13426 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.102 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 12.1 | 12.0 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.830 | 20.0 |
| BC13423 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 10.5 | 10.5 | 10.2 | 8.50 to 11.5 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.104 | 0.102 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13423 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13426 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 8.16 | 8.13 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.368 | 20.0 |
| BC13423 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 0.995 | 0.985 | 1.00 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.01 | 20.0 |
| BC13426 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 101 | 94.7 | 4.60 | 4.25 to 5.75 | 162 | 70.0 to 130 | 6.44 | 20.0 |
| BC13423 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 5.04 | 5.04 | 4.89 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Sulfate | mg/L | 0.238 | 2.0 | 20.0 | 19.9 | 19.8 | 19.3 | 18.0 to 22.0 | 99.5 | 80.0 to 120 | 0.504 | 20.0 |
| BC13426 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.0963 | 0.0965 | 0.0999 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.207 | 20.0 |
| BC13423 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 8.79 | 8.82 | 8.98 | | 87.9 | 80.0 to 120 | 0.341 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 12:31

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-12

Laboratory ID Number: BC13420

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13423 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.17 | 0.225 | 1.94 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC13422 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 241 | 50.0 | 40.0 to 60.0 | | | 2.05 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-11R

Location Code: WMWGORAP
Collected: 7/19/22 14:42
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13421

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:30 | | 1.015 | 0.111 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 14:40 | | 10.15 | 56.8 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:30 | | 1.015 | 1.80 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:30 | | 1.015 | 0.0289 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:30 | | 1.015 | 16.8 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:30 | | 1 | 32.5 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:30 | | 1.015 | 15.2 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 13:30 | | 1.015 | 14.8 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 11:04 | | 1.015 | 0.109 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 12:15 | | 10.15 | 49.8 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 11:04 | | 1.015 | 1.40 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 11:04 | | 1.015 | 0.0297 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 11:04 | | 1.015 | 16.8 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 11:04 | | 1 | 33.0 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 11:04 | | 1.015 | 15.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/25/22 11:04 | | 1.015 | 15.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | 0.00137 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | 0.110 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | 0.000455 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | 0.0713 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | 1.22 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-11R

Location Code: WMWGORAP
Collected: 7/19/22 14:42
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13421

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 19:47 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | 0.00104 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | 0.107 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | 0.000206 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | 0.0695 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | 0.000106 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | 1.24 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 15:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 20:42 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 14:35 | 7/26/22 14:35 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 190 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | 251 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 190 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | Not Detected | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/25/22 23:54 | 7/25/22 23:54 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-11R

Location Code: WMWGORAP

Collected: 7/19/22 14:42

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13421

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:28 | 7/27/22 10:28 | | 1 | 5.38 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:44 | 7/27/22 12:44 | | 1 | 0.0992 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 08:55 | 8/4/22 08:55 | | 1 | 39.4 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/19/22 14:39 | 7/19/22 14:39 | | | 420.83 | uS/cm | | | FA |
| pH | 7/19/22 14:39 | 7/19/22 14:39 | | | 6.13 | SU | | | FA |
| Temperature | 7/19/22 14:39 | 7/19/22 14:39 | | | 18.13 | C | | | FA |
| Turbidity | 7/19/22 14:39 | 7/19/22 14:39 | | | 6.3 | NTU | | | FA |
| Sulfide | 7/19/22 14:39 | 7/19/22 14:39 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 14:42

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-11R

Laboratory ID Number: BC13421

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13426 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.118 | 0.115 | 0.100 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.58 | 20.0 |
| BC13423 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.102 | 0.100 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0926 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.539 | 20.0 |
| BC13423 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.0994 | 0.100 | 0.0996 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.602 | 20.0 |
| BC13426 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.106 | 0.104 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC13426 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.135 | 0.132 | 0.0971 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.25 | 20.0 |
| BC13423 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.0981 | 0.0994 | 0.0981 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.32 | 20.0 |
| BC13426 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.0968 | 0.0965 | 0.0967 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.310 | 20.0 |
| BC13423 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0997 | 0.0965 | 0.0972 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC13426 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 0.976 | 1.01 | 0.965 | 0.850 to 1.15 | 94.3 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.01 | 0.989 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 2.10 | 20.0 |
| BC13426 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13423 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC13426 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 6.31 | 6.27 | 4.75 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.636 | 20.0 |
| BC13423 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 4.61 | 4.62 | 4.98 | 4.25 to 5.75 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC13423 | Chloride | mg/L | 0.0101 | 1.00 | 10.0 | 10.4 | 10.4 | 10.4 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.101 | 0.0976 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.101 | 0.0997 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13426 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC13423 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Fluoride | mg/L | -0.00383 | 0.125 | 2.50 | 2.74 | 2.86 | 2.65 | 2.25 to 2.75 | 110 | 80.0 to 120 | 4.29 | 20.0 |
| BC13426 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.220 | 0.214 | 0.201 | 0.170 to 0.230 | 101 | 70.0 to 130 | 2.76 | 20.0 |
| BC13423 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.198 | 0.195 | 0.198 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 1.53 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 14:42

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-11R

Laboratory ID Number: BC13421

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13426 | Lead, Dissolved | mg/L | 0.0000055 | 0.000147 | 0.100 | 0.0984 | 0.0976 | 0.100 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.816 | 20.0 |
| BC13423 | Lead, Total | mg/L | 0.0000060 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.247 | 0.241 | 0.191 | 0.170 to 0.230 | 107 | 70.0 to 130 | 2.46 | 20.0 |
| BC13423 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.205 | 0.205 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.21 | 5.18 | 4.67 | 4.25 to 5.75 | 98.1 | 70.0 to 130 | 0.577 | 20.0 |
| BC13423 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 4.93 | 4.93 | 5.00 | 4.25 to 5.75 | 98.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.106 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC13423 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.102 | 0.102 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Mercury, Total by CVAA | mg/L | 0.000000 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC13426 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.102 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 12.1 | 12.0 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.830 | 20.0 |
| BC13423 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 10.5 | 10.5 | 10.2 | 8.50 to 11.5 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.104 | 0.102 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13423 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13426 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 8.16 | 8.13 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.368 | 20.0 |
| BC13423 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 0.995 | 0.985 | 1.00 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.01 | 20.0 |
| BC13426 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 101 | 94.7 | 4.60 | 4.25 to 5.75 | 162 | 70.0 to 130 | 6.44 | 20.0 |
| BC13423 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 5.04 | 5.04 | 4.89 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Sulfate | mg/L | 0.238 | 2.0 | 20.0 | 19.9 | 19.8 | 19.3 | 18.0 to 22.0 | 99.5 | 80.0 to 120 | 0.504 | 20.0 |
| BC13426 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.0963 | 0.0965 | 0.0999 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.207 | 20.0 |
| BC13423 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 8.79 | 8.82 | 8.98 | | 87.9 | 80.0 to 120 | 0.341 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 14:42

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-11R

Laboratory ID Number: BC13421

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13423 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.17 | 0.225 | 1.94 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC13422 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 241 | 50.0 | 40.0 to 60.0 | | | 2.05 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-11R Dup

Location Code: WMWGORAP
Collected: 7/19/22 14:42
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13422

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:33 | | 1.015 | 0.111 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 14:43 | | 10.15 | 51.8 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:33 | | 1.015 | 1.75 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:33 | | 1.015 | 0.0286 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:33 | | 1.015 | 16.7 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:33 | | 1 | 32.7 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:33 | | 1.015 | 15.3 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 13:33 | | 1.015 | 14.6 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 11:08 | | 1.015 | 0.109 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 12:18 | | 10.15 | 50.1 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 11:08 | | 1.015 | 1.41 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 11:08 | | 1.015 | 0.0295 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 11:08 | | 1.015 | 16.8 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 11:08 | | 1 | 33.0 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 11:08 | | 1.015 | 15.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/25/22 11:08 | | 1.015 | 14.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | 0.00133 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | 0.108 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | 0.000293 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | 0.0713 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | 0.000126 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | 1.21 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-11R Dup

Location Code: WMWGORAP

Collected: 7/19/22 14:42

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13422

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 19:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | 0.00105 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | 0.110 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | 0.000275 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | 0.0691 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | 1.15 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 15:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 20:46 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 14:37 | 7/26/22 14:37 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 217 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | 246 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 217 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | Not Detected | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/26/22 00:13 | 7/26/22 00:13 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-11R Dup

Location Code: WMWGORAP

Collected: 7/19/22 14:42

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13422

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:29 | 7/27/22 10:29 | | 1 | 5.40 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:45 | 7/27/22 12:45 | | 1 | 0.107 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 08:57 | 8/4/22 08:57 | | 1 | 38.8 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/19/22 14:39 | 7/19/22 14:39 | | | 420.83 | uS/cm | | | FA |
| pH | 7/19/22 14:39 | 7/19/22 14:39 | | | 6.13 | SU | | | FA |
| Temperature | 7/19/22 14:39 | 7/19/22 14:39 | | | 18.13 | C | | | FA |
| Turbidity | 7/19/22 14:39 | 7/19/22 14:39 | | | 6.3 | NTU | | | FA |
| Sulfide | 7/19/22 14:39 | 7/19/22 14:39 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 14:42

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-11R Dup

Laboratory ID Number: BC13422

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC13426 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.118 | 0.115 | 0.100 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.58 | 20.0 |
| BC13423 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.102 | 0.100 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0926 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.539 | 20.0 |
| BC13423 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.0994 | 0.100 | 0.0996 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.602 | 20.0 |
| BC13426 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.106 | 0.104 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC13426 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.135 | 0.132 | 0.0971 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.25 | 20.0 |
| BC13423 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.0981 | 0.0994 | 0.0981 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.32 | 20.0 |
| BC13426 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.0968 | 0.0965 | 0.0967 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.310 | 20.0 |
| BC13423 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0997 | 0.0965 | 0.0972 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC13426 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 0.976 | 1.01 | 0.965 | 0.850 to 1.15 | 94.3 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.01 | 0.989 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 2.10 | 20.0 |
| BC13426 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13423 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC13426 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 6.31 | 6.27 | 4.75 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.636 | 20.0 |
| BC13423 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 4.61 | 4.62 | 4.98 | 4.25 to 5.75 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC13423 | Chloride | mg/L | 0.0101 | 1.00 | 10.0 | 10.4 | 10.4 | 10.4 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.101 | 0.0976 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.42 | 20.0 |
| BC13423 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.101 | 0.0997 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13426 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC13423 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Fluoride | mg/L | -0.00383 | 0.125 | 2.50 | 2.74 | 2.86 | 2.65 | 2.25 to 2.75 | 110 | 80.0 to 120 | 4.29 | 20.0 |
| BC13426 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.220 | 0.214 | 0.201 | 0.170 to 0.230 | 101 | 70.0 to 130 | 2.76 | 20.0 |
| BC13423 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.198 | 0.195 | 0.198 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 1.53 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 14:42

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-11R Dup

Laboratory ID Number: BC13422

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13426 | Lead, Dissolved | mg/L | 0.0000055 | 0.000147 | 0.100 | 0.0984 | 0.0976 | 0.100 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.816 | 20.0 |
| BC13423 | Lead, Total | mg/L | 0.0000060 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.247 | 0.241 | 0.191 | 0.170 to 0.230 | 107 | 70.0 to 130 | 2.46 | 20.0 |
| BC13423 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.205 | 0.205 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.21 | 5.18 | 4.67 | 4.25 to 5.75 | 98.1 | 70.0 to 130 | 0.577 | 20.0 |
| BC13423 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 4.93 | 4.93 | 5.00 | 4.25 to 5.75 | 98.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.106 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC13423 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.102 | 0.102 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Mercury, Total by CVAA | mg/L | 0.000000 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC13426 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.102 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 12.1 | 12.0 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.830 | 20.0 |
| BC13423 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 10.5 | 10.5 | 10.2 | 8.50 to 11.5 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.104 | 0.102 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13423 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13426 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 8.16 | 8.13 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.368 | 20.0 |
| BC13423 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 0.995 | 0.985 | 1.00 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.01 | 20.0 |
| BC13426 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 101 | 94.7 | 4.60 | 4.25 to 5.75 | 162 | 70.0 to 130 | 6.44 | 20.0 |
| BC13423 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 5.04 | 5.04 | 4.89 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Sulfate | mg/L | 0.238 | 2.0 | 20.0 | 19.9 | 19.8 | 19.3 | 18.0 to 22.0 | 99.5 | 80.0 to 120 | 0.504 | 20.0 |
| BC13426 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.0963 | 0.0965 | 0.0999 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.207 | 20.0 |
| BC13423 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 8.79 | 8.82 | 8.98 | | 87.9 | 80.0 to 120 | 0.341 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/19/22 14:42

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-11R Dup

Laboratory ID Number: BC13422

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13423 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.17 | 0.225 | 1.94 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC13422 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 241 | 50.0 | 40.0 to 60.0 | | | 2.05 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB
Collected: 7/19/22 15:25
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13423

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:36 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 13:36 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:36 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:36 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:36 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:36 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:36 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 13:36 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | 0.000364 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 19:54 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: CRB | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 20:50 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: CES | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 14:39 | 7/26/22 14:39 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB

Collected: 7/19/22 15:25

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13423

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/26/22 00:35 | 7/26/22 00:35 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:30 | 7/27/22 10:30 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:46 | 7/27/22 12:46 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 08:58 | 8/4/22 08:58 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/19/22 15:25

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC13423

| Sample | Analysis | Units | MB | | | | Standard | | Rec | | Prec | Limit | |
|---------|------------------------|-------|------------|----------|-------|---------|----------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | | | Limit |
| BC13423 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.102 | 0.100 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.98 | 20.0 |
| BC13423 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.0994 | 0.100 | 0.0996 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 0.602 | 20.0 |
| BC13423 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.106 | 0.104 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC13423 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.0981 | 0.0994 | 0.0981 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 1.32 | 20.0 |
| BC13423 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0997 | 0.0965 | 0.0972 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 3.26 | 20.0 |
| BC13423 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.01 | 0.989 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 2.10 | 20.0 |
| BC13423 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC13423 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 4.61 | 4.62 | 4.98 | 4.25 to 5.75 | 92.2 | 70.0 to 130 | 0.217 | 20.0 |
| BC13423 | Chloride | mg/L | 0.0101 | 1.00 | 10.0 | 10.4 | 10.4 | 10.4 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.00 | 20.0 |
| BC13423 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.101 | 0.0997 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13423 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Fluoride | mg/L | -0.00383 | 0.125 | 2.50 | 2.74 | 2.86 | 2.65 | 2.25 to 2.75 | 110 | 80.0 to 120 | 4.29 | 20.0 |
| BC13423 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.198 | 0.195 | 0.198 | 0.170 to 0.230 | 99.0 | 70.0 to 130 | 1.53 | 20.0 |
| BC13423 | Lead, Total | mg/L | 0.0000060 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.205 | 0.205 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 4.93 | 4.93 | 5.00 | 4.25 to 5.75 | 98.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.102 | 0.102 | 0.100 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Mercury, Total by CVAA | mg/L | 0.0000000 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC13423 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 10.5 | 10.5 | 10.2 | 8.50 to 11.5 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.103 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 0.995 | 0.985 | 1.00 | 0.850 to 1.15 | 99.5 | 70.0 to 130 | 1.01 | 20.0 |
| BC13423 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 5.04 | 5.04 | 4.89 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13423 | Sulfate | mg/L | 0.238 | 2.0 | 20.0 | 19.9 | 19.8 | 19.3 | 18.0 to 22.0 | 99.5 | 80.0 to 120 | 0.504 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/19/22 15:25

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC13423

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | |
|---------|----------------------|-------|------------|----------|-------|-------|-------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | Limit |
| BC13423 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC13423 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 8.79 | 8.82 | 8.98 | | 87.9 | 80.0 to 120 | 0.341 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/19/22 15:25

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC13423

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------------------|-------------------|------------|--------------|------|---------------|
| BC13423 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.17 | 0.225 | 1.94 | 1.80 to 2.20 | 108 | 90.0 to 110 | 0.00 | 15.0 |
| BC13422 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 241 | 50.0 | 40.0 to 60.0 | | | 2.05 | 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12V

Location Code: WMWGORAP
Collected: 7/20/22 10:27
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13424

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:51 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 14:46 | | 10.15 | 47.5 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:51 | | 1.015 | 0.349 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:51 | | 1.015 | 0.0309 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:51 | | 1.015 | 9.89 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:51 | | 1 | 25.7 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:51 | | 1.015 | 12.0 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 13:51 | | 1.015 | 17.3 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 11:11 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 12:21 | | 10.15 | 45.0 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 11:11 | | 1.015 | 0.140 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 11:11 | | 1.015 | 0.0304 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 11:11 | | 1.015 | 9.95 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 11:11 | | 1 | 25.5 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 11:11 | | 1.015 | 11.9 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/25/22 11:11 | | 1.015 | 16.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | 0.000577 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | 0.0622 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | 0.00102 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | 1.21 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | 0.000485 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | 0.0329 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | 0.00204 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | 2.67 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12V

Location Code: WMWGORAP

Collected: 7/20/22 10:27

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13424

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 20:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | 0.00105 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | 1.17 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | 0.000300 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | 0.0290 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | 0.00201 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | 2.67 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 21:10 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 15:10 | 7/26/22 15:10 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 186 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/22/22 09:50 | 7/26/22 09:45 | | 1 | 189 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 182 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 3.66 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/26/22 02:03 | 7/26/22 02:03 | | 1 | 1.27 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-12V

Location Code: WMWGORAP

Collected: 7/20/22 10:27

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13424

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:58 | 7/27/22 10:58 | | 1 | 3.85 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 12:59 | 7/27/22 12:59 | | 1 | 0.180 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:14 | 8/4/22 09:14 | | 1 | 1.08 | mg/L | 0.6 | 2 | J |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/20/22 10:24 | 7/20/22 10:24 | | | 258.53 | uS/cm | | | FA |
| pH | 7/20/22 10:24 | 7/20/22 10:24 | | | 8.52 | SU | | | FA |
| Temperature | 7/20/22 10:24 | 7/20/22 10:24 | | | 22.29 | C | | | FA |
| Turbidity | 7/20/22 10:24 | 7/20/22 10:24 | | | 6.27 | NTU | | | FA |
| Sulfide | 7/20/22 10:24 | 7/20/22 10:24 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 10:27

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: BC13424

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13426 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.118 | 0.115 | 0.100 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.58 | 20.0 |
| BC13426 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.236 | 0.239 | 0.0989 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 1.26 | 20.0 |
| BC13426 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0926 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.539 | 20.0 |
| BC13426 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.100 | 0.102 | 0.0996 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13426 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.135 | 0.132 | 0.0971 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.25 | 20.0 |
| BC13426 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.135 | 0.141 | 0.0981 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 4.35 | 20.0 |
| BC13426 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.0968 | 0.0965 | 0.0967 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.310 | 20.0 |
| BC13426 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0976 | 0.104 | 0.0972 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 6.35 | 20.0 |
| BC13426 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 0.976 | 1.01 | 0.965 | 0.850 to 1.15 | 94.3 | 70.0 to 130 | 3.42 | 20.0 |
| BC13426 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC13426 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13426 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0989 | 0.101 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.10 | 20.0 |
| BC13426 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 6.31 | 6.27 | 4.75 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.636 | 20.0 |
| BC13426 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 5.92 | 5.79 | 4.98 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 2.22 | 20.0 |
| BC13426 | Chloride | mg/L | 0.0234 | 1.00 | 10.0 | 20.8 | 20.8 | 10.4 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.101 | 0.0976 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.42 | 20.0 |
| BC13426 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.0979 | 0.0984 | 0.0996 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.509 | 20.0 |
| BC13426 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC13426 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC13426 | Fluoride | mg/L | -0.0281 | 0.125 | 2.50 | 3.02 | 3.02 | 2.75 | 2.25 to 2.75 | 113 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.220 | 0.214 | 0.201 | 0.170 to 0.230 | 101 | 70.0 to 130 | 2.76 | 20.0 |
| BC13426 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.296 | 0.292 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 1.36 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 10:27

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: BC13424

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13426 | Lead, Dissolved | mg/L | 0.000055 | 0.000147 | 0.100 | 0.0984 | 0.0976 | 0.100 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.816 | 20.0 |
| BC13426 | Lead, Total | mg/L | 0.000060 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.247 | 0.241 | 0.191 | 0.170 to 0.230 | 107 | 70.0 to 130 | 2.46 | 20.0 |
| BC13426 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.236 | 0.237 | 0.200 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.423 | 20.0 |
| BC13426 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.21 | 5.18 | 4.67 | 4.25 to 5.75 | 98.1 | 70.0 to 130 | 0.577 | 20.0 |
| BC13426 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 5.28 | 5.23 | 5.00 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 0.951 | 20.0 |
| BC13426 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.106 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC13426 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.103 | 0.103 | 0.100 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Mercury, Total by CVAA | mg/L | 0.000000 | 0.000500 | 0.004 | 0.00401 | 0.00409 | 0.00403 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.102 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 12.1 | 12.0 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.830 | 20.0 |
| BC13426 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 12.3 | 12.0 | 10.2 | 8.50 to 11.5 | 102 | 70.0 to 130 | 2.47 | 20.0 |
| BC13426 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.104 | 0.102 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13426 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 8.16 | 8.13 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.368 | 20.0 |
| BC13426 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 8.23 | 8.15 | 1.00 | 0.850 to 1.15 | 114 | 70.0 to 130 | 0.977 | 20.0 |
| BC13426 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 101 | 94.7 | 4.60 | 4.25 to 5.75 | 162 | 70.0 to 130 | 6.44 | 20.0 |
| BC13426 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 108 | 106 | 4.89 | 4.25 to 5.75 | 196 | 70.0 to 130 | 1.87 | 20.0 |
| BC14026 | Sulfate | mg/L | -0.546 | 2.0 | 640 | 1000 | 1050 | 19.4 | 18.0 to 22.0 | 95.8 | 80.0 to 120 | 4.88 | 20.0 |
| BC13426 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.0963 | 0.0965 | 0.0999 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.207 | 20.0 |
| BC13426 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC13426 | Total Organic Carbon | mg/L | 0.154 | 1.00 | 10.0 | 10.0 | 9.67 | 8.97 | | 88.0 | 80.0 to 120 | 3.36 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 10:27

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-12V

Laboratory ID Number: BC13424

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13426 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.00 | 0.075 | 1.84 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC13426 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 245 | 51.0 | 40.0 to 60.0 | | | 1.22 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-13R

Location Code: WMWGORAP
Collected: 7/20/22 13:16
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13425

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:54 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 13:54 | | 1.015 | 31.8 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:54 | | 1.015 | 1.32 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:54 | | 1.015 | 0.0270 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:54 | | 1.015 | 13.1 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:54 | | 1 | 27.6 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:54 | | 1.015 | 12.9 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 13:54 | | 1.015 | 18.8 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 11:14 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 11:14 | | 1.015 | 33.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 11:14 | | 1.015 | 0.946 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 11:14 | | 1.015 | 0.0280 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 11:14 | | 1.015 | 13.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 11:14 | | 1 | 28.0 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 11:14 | | 1.015 | 13.1 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/25/22 11:14 | | 1.015 | 19.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | 0.0160 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | 0.0667 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | 0.000261 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | 0.0515 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | 0.000155 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | 1.39 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-13R

Location Code: WMWGORAP
Collected: 7/20/22 13:16
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13425

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 20:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | 0.0117 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | 0.0635 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | 0.000284 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | 0.0532 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | 0.000154 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | 1.40 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 15:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 21:14 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 15:11 | 7/26/22 15:11 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 138 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/22/22 09:50 | 7/26/22 09:45 | | 1 | 210 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 138 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | Not Detected | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/26/22 02:23 | 7/26/22 02:23 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-13R

Location Code: WMWGORAP

Collected: 7/20/22 13:16

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13425

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 10:59 | 7/27/22 10:59 | | 1 | 17.6 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 13:01 | 7/27/22 13:01 | | 1 | 0.0840 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:15 | 8/4/22 09:15 | | 1 | 38.9 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/20/22 13:13 | 7/20/22 13:13 | | | 388.36 | uS/cm | | | FA |
| pH | 7/20/22 13:13 | 7/20/22 13:13 | | | 6.39 | SU | | | FA |
| Temperature | 7/20/22 13:13 | 7/20/22 13:13 | | | 22.29 | C | | | FA |
| Turbidity | 7/20/22 13:13 | 7/20/22 13:13 | | | 4.36 | NTU | | | FA |
| Sulfide | 7/20/22 13:13 | 7/20/22 13:13 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 13:16

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-13R

Laboratory ID Number: BC13425

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13426 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.118 | 0.115 | 0.100 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.58 | 20.0 |
| BC13426 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.236 | 0.239 | 0.0989 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 1.26 | 20.0 |
| BC13426 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0926 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.539 | 20.0 |
| BC13426 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.100 | 0.102 | 0.0996 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13426 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.135 | 0.132 | 0.0971 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.25 | 20.0 |
| BC13426 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.135 | 0.141 | 0.0981 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 4.35 | 20.0 |
| BC13426 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.0968 | 0.0965 | 0.0967 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.310 | 20.0 |
| BC13426 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0976 | 0.104 | 0.0972 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 6.35 | 20.0 |
| BC13426 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 0.976 | 1.01 | 0.965 | 0.850 to 1.15 | 94.3 | 70.0 to 130 | 3.42 | 20.0 |
| BC13426 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC13426 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13426 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0989 | 0.101 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.10 | 20.0 |
| BC13426 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 6.31 | 6.27 | 4.75 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.636 | 20.0 |
| BC13426 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 5.92 | 5.79 | 4.98 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 2.22 | 20.0 |
| BC13426 | Chloride | mg/L | 0.0234 | 1.00 | 10.0 | 20.8 | 20.8 | 10.4 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.101 | 0.0976 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.42 | 20.0 |
| BC13426 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.0979 | 0.0984 | 0.0996 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.509 | 20.0 |
| BC13426 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC13426 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC13426 | Fluoride | mg/L | -0.0281 | 0.125 | 2.50 | 3.02 | 3.02 | 2.75 | 2.25 to 2.75 | 113 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.220 | 0.214 | 0.201 | 0.170 to 0.230 | 101 | 70.0 to 130 | 2.76 | 20.0 |
| BC13426 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.296 | 0.292 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 1.36 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 13:16

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-13R

Laboratory ID Number: BC13425

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13426 | Lead, Dissolved | mg/L | 0.000055 | 0.000147 | 0.100 | 0.0984 | 0.0976 | 0.100 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.816 | 20.0 |
| BC13426 | Lead, Total | mg/L | 0.000060 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.247 | 0.241 | 0.191 | 0.170 to 0.230 | 107 | 70.0 to 130 | 2.46 | 20.0 |
| BC13426 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.236 | 0.237 | 0.200 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.423 | 20.0 |
| BC13426 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.21 | 5.18 | 4.67 | 4.25 to 5.75 | 98.1 | 70.0 to 130 | 0.577 | 20.0 |
| BC13426 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 5.28 | 5.23 | 5.00 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 0.951 | 20.0 |
| BC13426 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.106 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC13426 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.103 | 0.103 | 0.100 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Mercury, Total by CVAA | mg/L | 0.000000 | 0.000500 | 0.004 | 0.00401 | 0.00409 | 0.00403 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.102 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 12.1 | 12.0 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.830 | 20.0 |
| BC13426 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 12.3 | 12.0 | 10.2 | 8.50 to 11.5 | 102 | 70.0 to 130 | 2.47 | 20.0 |
| BC13426 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.104 | 0.102 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13426 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 8.16 | 8.13 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.368 | 20.0 |
| BC13426 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 8.23 | 8.15 | 1.00 | 0.850 to 1.15 | 114 | 70.0 to 130 | 0.977 | 20.0 |
| BC13426 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 101 | 94.7 | 4.60 | 4.25 to 5.75 | 162 | 70.0 to 130 | 6.44 | 20.0 |
| BC13426 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 108 | 106 | 4.89 | 4.25 to 5.75 | 196 | 70.0 to 130 | 1.87 | 20.0 |
| BC14026 | Sulfate | mg/L | -0.546 | 2.0 | 640 | 1000 | 1050 | 19.4 | 18.0 to 22.0 | 95.8 | 80.0 to 120 | 4.88 | 20.0 |
| BC13426 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.0963 | 0.0965 | 0.0999 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.207 | 20.0 |
| BC13426 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC13426 | Total Organic Carbon | mg/L | 0.154 | 1.00 | 10.0 | 10.0 | 9.67 | 8.97 | | 88.0 | 80.0 to 120 | 3.36 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 13:16

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-13R

Laboratory ID Number: BC13425

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13426 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.00 | 0.075 | 1.84 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC13426 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 245 | 51.0 | 40.0 to 60.0 | | | 1.22 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36H

Location Code: WMWGORAP
Collected: 7/20/22 12:50
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13426

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 13:56 | | 1.015 | 0.0316 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 13:56 | | 1.015 | 1.16 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 13:56 | | 1.015 | 0.0940 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 13:56 | | 1.015 | 0.0303 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 13:56 | | 1.015 | 0.309 | mg/L | 0.021315 | 0.406 | J |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 13:56 | | 1 | 15.2 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 13:56 | | 1.015 | 7.09 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 14:49 | | 10.15 | 98.2 | mg/L | 0.3045 | 4.06 | RA |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:24 | 7/25/22 11:18 | | 1.015 | 0.0330 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 7/21/22 15:24 | 7/25/22 11:18 | | 1.015 | 1.25 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 7/21/22 15:24 | 7/25/22 11:18 | | 1.015 | 0.0174 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 7/21/22 15:24 | 7/25/22 11:18 | | 1.015 | 0.0329 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:24 | 7/25/22 11:18 | | 1.015 | 0.305 | mg/L | 0.021315 | 0.406 | J |
| Silica, Dissolved (calc.) | 7/21/22 15:24 | 7/25/22 11:18 | | 1 | 15.2 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:24 | 7/25/22 11:18 | | 1.015 | 7.11 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:24 | 7/25/22 12:25 | | 10.15 | 92.9 | mg/L | 0.3045 | 4.06 | RA |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | 0.124 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | 0.000400 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | 0.0393 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | 0.000451 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | 0.00341 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | 0.00183 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | 2.05 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36H

Location Code: WMWGORAP
Collected: 7/20/22 12:50
Customer ID:
Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13426

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 20:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | 0.0144 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | 0.000418 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | 0.0377 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | 0.000266 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | 0.00271 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | 0.00189 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | 2.01 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/21/22 14:19 | 7/22/22 15:25 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 21:17 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 15:11 | 7/26/22 15:11 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 208 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/22/22 09:50 | 7/26/22 09:45 | | 1 | 248 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 202 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/26/22 12:58 | 7/26/22 14:35 | | 1 | 5.87 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/26/22 02:48 | 7/26/22 02:48 | | 1 | 1.20 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36H

Location Code: WMWGORAP

Collected: 7/20/22 12:50

Customer ID:

Submittal Date: 7/21/22 08:33

Laboratory ID Number: BC13426

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:00 | 7/27/22 11:00 | | 1 | 10.6 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 13:02 | 7/27/22 13:02 | | 1 | 0.186 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:16 | 8/4/22 09:16 | | 1 | 11.0 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 7/20/22 12:48 | 7/20/22 12:48 | | | 332.02 | uS/cm | | | FA |
| pH | 7/20/22 12:48 | 7/20/22 12:48 | | | 8.05 | SU | | | FA |
| Temperature | 7/20/22 12:48 | 7/20/22 12:48 | | | 22.98 | C | | | FA |
| Turbidity | 7/20/22 12:48 | 7/20/22 12:48 | | | 4.2 | NTU | | | FA |
| Sulfide | 7/20/22 12:48 | 7/20/22 12:48 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 12:50

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-36H

Laboratory ID Number: BC13426

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC13426 | Aluminum, Dissolved | mg/L | 0.000149 | 0.010 | 0.100 | 0.118 | 0.115 | 0.100 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 2.58 | 20.0 |
| BC13426 | Aluminum, Total | mg/L | 0.000745 | 0.010 | 0.100 | 0.236 | 0.239 | 0.0989 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 1.26 | 20.0 |
| BC13426 | Antimony, Dissolved | mg/L | 0.000276 | 0.00100 | 0.100 | 0.0931 | 0.0926 | 0.0911 | 0.0850 to 0.115 | 93.1 | 70.0 to 130 | 0.539 | 20.0 |
| BC13426 | Antimony, Total | mg/L | 0.000214 | 0.00100 | 0.100 | 0.100 | 0.102 | 0.0996 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Arsenic, Dissolved | mg/L | 0.0000329 | 0.000176 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Arsenic, Total | mg/L | 0.0000239 | 0.000176 | 0.100 | 0.102 | 0.101 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13426 | Barium, Dissolved | mg/L | -0.0000586 | 0.00100 | 0.100 | 0.135 | 0.132 | 0.0971 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.25 | 20.0 |
| BC13426 | Barium, Total | mg/L | -0.0000058 | 0.00100 | 0.100 | 0.135 | 0.141 | 0.0981 | 0.0850 to 0.115 | 95.7 | 70.0 to 130 | 4.35 | 20.0 |
| BC13426 | Beryllium, Dissolved | mg/L | 0.000206 | 0.000880 | 0.100 | 0.0968 | 0.0965 | 0.0967 | 0.0850 to 0.115 | 96.8 | 70.0 to 130 | 0.310 | 20.0 |
| BC13426 | Beryllium, Total | mg/L | 0.000193 | 0.000880 | 0.100 | 0.0976 | 0.104 | 0.0972 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 6.35 | 20.0 |
| BC13426 | Boron, Dissolved | mg/L | 0.00200 | 0.0650 | 1.00 | 0.976 | 1.01 | 0.965 | 0.850 to 1.15 | 94.3 | 70.0 to 130 | 3.42 | 20.0 |
| BC13426 | Boron, Total | mg/L | -0.00349 | 0.0650 | 1.00 | 1.06 | 1.05 | 1.00 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC13426 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13426 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0989 | 0.101 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.10 | 20.0 |
| BC13426 | Calcium, Dissolved | mg/L | -0.0156 | 0.152 | 5.00 | 6.31 | 6.27 | 4.75 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.636 | 20.0 |
| BC13426 | Calcium, Total | mg/L | -0.0252 | 0.152 | 5.00 | 5.92 | 5.79 | 4.98 | 4.25 to 5.75 | 95.2 | 70.0 to 130 | 2.22 | 20.0 |
| BC13426 | Chloride | mg/L | 0.0234 | 1.00 | 10.0 | 20.8 | 20.8 | 10.4 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Chromium, Dissolved | mg/L | 0.0000393 | 0.000440 | 0.100 | 0.101 | 0.0976 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 3.42 | 20.0 |
| BC13426 | Chromium, Total | mg/L | 0.0000348 | 0.000440 | 0.100 | 0.0979 | 0.0984 | 0.0996 | 0.0850 to 0.115 | 97.4 | 70.0 to 130 | 0.509 | 20.0 |
| BC13426 | Cobalt, Dissolved | mg/L | -0.0000232 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC13426 | Cobalt, Total | mg/L | -0.0000161 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC13426 | Fluoride | mg/L | -0.0281 | 0.125 | 2.50 | 3.02 | 3.02 | 2.75 | 2.25 to 2.75 | 113 | 80.0 to 120 | 0.00 | 20.0 |
| BC13426 | Iron, Dissolved | mg/L | 0.000192 | 0.0176 | 0.2 | 0.220 | 0.214 | 0.201 | 0.170 to 0.230 | 101 | 70.0 to 130 | 2.76 | 20.0 |
| BC13426 | Iron, Total | mg/L | 0.00137 | 0.0176 | 0.2 | 0.296 | 0.292 | 0.198 | 0.170 to 0.230 | 101 | 70.0 to 130 | 1.36 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 12:50

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-36H

Laboratory ID Number: BC13426

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13426 | Lead, Dissolved | mg/L | 0.000055 | 0.000147 | 0.100 | 0.0984 | 0.0976 | 0.100 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.816 | 20.0 |
| BC13426 | Lead, Total | mg/L | 0.000060 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Lithium, Dissolved | mg/L | 0.000198 | 0.0154 | 0.200 | 0.247 | 0.241 | 0.191 | 0.170 to 0.230 | 107 | 70.0 to 130 | 2.46 | 20.0 |
| BC13426 | Lithium, Total | mg/L | -0.000132 | 0.0154 | 0.200 | 0.236 | 0.237 | 0.200 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.423 | 20.0 |
| BC13426 | Magnesium, Dissolved | mg/L | 0.00105 | 0.0462 | 5.00 | 5.21 | 5.18 | 4.67 | 4.25 to 5.75 | 98.1 | 70.0 to 130 | 0.577 | 20.0 |
| BC13426 | Magnesium, Total | mg/L | -0.000702 | 0.0462 | 5.00 | 5.28 | 5.23 | 5.00 | 4.25 to 5.75 | 99.4 | 70.0 to 130 | 0.951 | 20.0 |
| BC13426 | Manganese, Dissolved | mg/L | -0.0000577 | 0.00033 | 0.100 | 0.106 | 0.103 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC13426 | Manganese, Total | mg/L | -0.0000251 | 0.00033 | 0.100 | 0.103 | 0.103 | 0.100 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Mercury, Total by CVAA | mg/L | 0.000000 | 0.000500 | 0.004 | 0.00401 | 0.00409 | 0.00403 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13426 | Molybdenum, Dissolved | mg/L | 0.0000057 | 0.0002 | 0.100 | 0.102 | 0.102 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Molybdenum, Total | mg/L | 0.0000350 | 0.0002 | 0.100 | 0.103 | 0.103 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Potassium, Dissolved | mg/L | -0.0195 | 0.367 | 10.0 | 12.1 | 12.0 | 10.3 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.830 | 20.0 |
| BC13426 | Potassium, Total | mg/L | -0.0135 | 0.367 | 10.0 | 12.3 | 12.0 | 10.2 | 8.50 to 11.5 | 102 | 70.0 to 130 | 2.47 | 20.0 |
| BC13426 | Selenium, Dissolved | mg/L | 0.000251 | 0.00100 | 0.100 | 0.104 | 0.102 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13426 | Selenium, Total | mg/L | 0.000141 | 0.00100 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC13426 | Silicon, Dissolved | mg/L | -0.000652 | 0.0440 | 1.00 | 8.16 | 8.13 | 1.01 | 0.850 to 1.15 | 105 | 70.0 to 130 | 0.368 | 20.0 |
| BC13426 | Silicon, Total | mg/L | 0.0005 | 0.0440 | 1.00 | 8.23 | 8.15 | 1.00 | 0.850 to 1.15 | 114 | 70.0 to 130 | 0.977 | 20.0 |
| BC13426 | Sodium, Dissolved | mg/L | 0.000496 | 0.0660 | 5.00 | 101 | 94.7 | 4.60 | 4.25 to 5.75 | 162 | 70.0 to 130 | 6.44 | 20.0 |
| BC13426 | Sodium, Total | mg/L | -0.000097 | 0.0660 | 5.00 | 108 | 106 | 4.89 | 4.25 to 5.75 | 196 | 70.0 to 130 | 1.87 | 20.0 |
| BC14026 | Sulfate | mg/L | -0.546 | 2.0 | 640 | 1000 | 1050 | 19.4 | 18.0 to 22.0 | 95.8 | 80.0 to 120 | 4.88 | 20.0 |
| BC13426 | Thallium, Dissolved | mg/L | -0.0000356 | 0.000147 | 0.100 | 0.0963 | 0.0965 | 0.0999 | 0.0850 to 0.115 | 96.3 | 70.0 to 130 | 0.207 | 20.0 |
| BC13426 | Thallium, Total | mg/L | -0.0000126 | 0.000147 | 0.100 | 0.102 | 0.104 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC13426 | Total Organic Carbon | mg/L | 0.154 | 1.00 | 10.0 | 10.0 | 9.67 | 8.97 | | 88.0 | 80.0 to 120 | 3.36 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 12:50

Customer ID:

Delivery Date: 7/21/22 08:33

Description: Gorgas Ash Pond - MW-36H

Laboratory ID Number: BC13426

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC13426 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 228 | 51.3 | 45.0 to 55.0 | | | 9.17 | 10.0 |
| BC13426 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.11 | 0.200 | 2.00 | 2.00 | 0.075 | 1.84 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC13426 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 245 | 51.0 | 40.0 to 60.0 | | | 1.22 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7

Location Code: WMWGORAP
Collected: 7/25/22 12:05
Customer ID:
Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14020

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 10:51 | | 1.015 | 1.73 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 10:51 | | 1.015 | 10.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 10:51 | | 1.015 | 0.952 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 10:51 | | 1.015 | 0.227 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 10:51 | | 1.015 | 3.87 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 10:51 | | 1 | 12.3 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 10:51 | | 1.015 | 5.75 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 12:39 | | 10.15 | 106 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 13:23 | | 1.015 | 1.68 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 13:23 | | 1.015 | 10.4 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 13:23 | | 1.015 | 0.216 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 13:23 | | 1.015 | 0.218 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 13:23 | | 1.015 | 3.75 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 13:23 | | 1 | 11.5 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 13:23 | | 1.015 | 5.36 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 15:11 | | 10.15 | 110 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | 0.345 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | 0.272 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | 0.0677 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | 0.00103 | mg/L | 0.000203 | 0.001015 | |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | 0.000372 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | 0.000431 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | 0.0479 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | 0.214 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | 1.35 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7

Location Code: WMWGORAP

Collected: 7/25/22 12:05

Customer ID:

Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14020

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 11:37 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | 0.260 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | 0.0577 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | 0.000240 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | 0.0376 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | 0.214 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | 1.24 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 14:01 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:22 | 7/28/22 16:22 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 116 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 336 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 115 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 1.10 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 00:47 | 8/4/22 00:47 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7

Location Code: WMWGORAP

Collected: 7/25/22 12:05

Customer ID:

Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14020

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 09:37 | 8/8/22 09:37 | | 1 | 7.75 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:22 | 8/8/22 13:22 | | 1 | 0.112 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:29 | 8/4/22 09:29 | | 8 | 131 | mg/L | 4.8 | 16 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/25/22 12:02 | 7/25/22 12:02 | | | 549.15 | uS/cm | | | FA |
| pH | 7/25/22 12:02 | 7/25/22 12:02 | | | 7.64 | SU | | | FA |
| Temperature | 7/25/22 12:02 | 7/25/22 12:02 | | | 19.92 | C | | | FA |
| Turbidity | 7/25/22 12:02 | 7/25/22 12:02 | | | 10.17 | NTU | | | FA |
| Sulfide | 7/25/22 12:02 | 7/25/22 12:02 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 12:05

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: BC14020

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC14030 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14030 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.110 | 0.108 | 0.106 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 | |
| BC14030 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0876 | 0.0902 | 0.0889 | 0.0850 to 0.115 | 87.6 | 70.0 to 130 | 2.92 | 20.0 | |
| BC14030 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0910 | 0.0926 | 0.0945 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.74 | 20.0 | |
| BC14030 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.102 | 0.0973 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 | |
| BC14030 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14030 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 0.158 | 0.166 | 0.0994 | 0.0850 to 0.115 | 91.9 | 70.0 to 130 | 4.94 | 20.0 | |
| BC14030 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 0.165 | 0.164 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.608 | 20.0 | |
| BC14030 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.104 | 0.103 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14030 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.101 | 0.102 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 | |
| BC14030 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.12 | 1.11 | 0.986 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.897 | 20.0 | |
| BC14030 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.13 | 1.14 | 1.01 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.881 | 20.0 | |
| BC14030 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0997 | 0.0948 | 0.0960 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.04 | 20.0 | |
| BC14030 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.102 | 0.0988 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.19 | 20.0 | |
| BC14030 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 92.8 | 81.2 | 4.85 | 4.25 to 5.75 | 114 | 70.0 to 130 | 13.3 | 20.0 | |
| BC14030 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 70.4 | 67.3 | 4.93 | 4.25 to 5.75 | 132 | 70.0 to 130 | 4.50 | 20.0 | |
| BC14029 | Chloride | mg/L | -0.0238 | 1.00 | 10.0 | 15.1 | 15.2 | 10.1 | 9.00 to 11.0 | 101 | 80.0 to 120 | 0.660 | 20.0 | |
| BC14030 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0978 | 0.0992 | 0.0970 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.42 | 20.0 | |
| BC14030 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.101 | 0.0999 | 0.0997 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.10 | 20.0 | |
| BC14030 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0959 | 0.0969 | 0.0981 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 1.04 | 20.0 | |
| BC14030 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0990 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.608 | 20.0 | |
| BC14029 | Fluoride | mg/L | -0.0505 | 0.125 | 2.50 | 2.84 | 2.81 | 2.69 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.06 | 20.0 | |
| BC14030 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 0.912 | 0.901 | 0.197 | 0.170 to 0.230 | 100 | 70.0 to 130 | 1.21 | 20.0 | |
| BC14030 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 0.935 | 0.938 | 0.202 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.320 | 20.0 | |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 12:05

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: BC14020

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.232 | 0.230 | 0.200 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.866 | 20.0 |
| BC14030 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.238 | 0.243 | 0.216 | 0.170 to 0.230 | 111 | 70.0 to 130 | 2.08 | 20.0 |
| BC14030 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 23.7 | 23.7 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 24.1 | 24.1 | 5.19 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.161 | 0.162 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.619 | 20.0 |
| BC14030 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.165 | 0.164 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00359 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 1.66 | 20.0 |
| BC14030 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.00 | 20.0 |
| BC14030 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.103 | 0.101 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.96 | 20.0 |
| BC14030 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.5 | 11.3 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 1.75 | 20.0 |
| BC14030 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.7 | 11.5 | 10.5 | 8.50 to 11.5 | 105 | 70.0 to 130 | 1.72 | 20.0 |
| BC14030 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.105 | 0.102 | 0.0974 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.107 | 0.106 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.939 | 20.0 |
| BC14030 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 12.4 | 12.3 | 0.998 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.810 | 20.0 |
| BC14030 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 12.4 | 12.4 | 1.02 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 23.7 | 23.7 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 24.4 | 24.5 | 5.29 | 4.25 to 5.75 | 118 | 70.0 to 130 | 0.409 | 20.0 |
| BC14026 | Sulfate | mg/L | -0.546 | 2.0 | 640 | 1000 | 1050 | 19.4 | 18.0 to 22.0 | 95.8 | 80.0 to 120 | 4.88 | 20.0 |
| BC14030 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.105 | 0.102 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.107 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14029 | Total Organic Carbon | mg/L | 0.199 | 1.00 | 10.0 | 10.1 | 9.67 | 22.7 | | 101 | 80.0 to 120 | 4.35 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 12:05

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-7

Laboratory ID Number: BC14020

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|-----|-------------|-------|------------|
| BC14031 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 225 | 50.8 | 45.0 to 55.0 | | | 0.445 | 10.0 |
| BC14029 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.05 | 0.022 | 1.81 | 1.80 to 2.20 | 102 | 90.0 to 110 | 0.00 | 15.0 |
| BC14033 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 879 | 50.0 | 40.0 to 60.0 | | | 0.342 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7 DIS

Location Code: WMWGORAP

Collected: 7/25/22 12:05

Customer ID:

Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14021

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|--------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 13:26 | | 1.015 | 1.68 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 13:26 | | 1.015 | 10.4 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 13:26 | | 1.015 | 0.218 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 13:26 | | 1.015 | 0.218 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 13:26 | | 1.015 | 3.75 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 13:26 | | 1 | 11.4 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 13:26 | | 1.015 | 5.33 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 15:14 | | 10.15 | 104 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | 0.0124 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | 0.270 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | 0.0557 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | 0.000298 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | 0.0378 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | 0.212 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | 1.26 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 16:23 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Dissolved by CVAA | 8/10/22 10:40 | 8/10/22 14:34 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:24 | 7/28/22 16:24 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 111 | mg/L | | 0.1 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7 DIS

Location Code: WMWGORAP
Collected: 7/25/22 12:05
Customer ID:
Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14021

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 299 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 110 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 0.88 | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 01:04 | 8/4/22 01:04 | | 1 | 1.04 | mg/L | 1.00 | 2 | J |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 09:38 | 8/8/22 09:38 | | 1 | 7.86 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:23 | 8/8/22 13:23 | | 1 | 0.0734 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:31 | 8/4/22 09:31 | | 8 | 140 | mg/L | 4.8 | 16 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/25/22 12:02 | 7/25/22 12:02 | | | 549.15 | uS/cm | | | FA |
| pH | 7/25/22 12:02 | 7/25/22 12:02 | | | 7.64 | SU | | | FA |
| Temperature | 7/25/22 12:02 | 7/25/22 12:02 | | | 19.92 | C | | | FA |
| Turbidity | 7/25/22 12:02 | 7/25/22 12:02 | | | 10.17 | NTU | | | FA |
| Sulfide | 7/25/22 12:02 | 7/25/22 12:02 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 12:05

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-7 DIS

Laboratory ID Number: BC14021

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|-----------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0876 | 0.0902 | 0.0889 | 0.0850 to 0.115 | 87.6 | 70.0 to 130 | 2.92 | 20.0 |
| BC14030 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.102 | 0.0973 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 0.158 | 0.166 | 0.0994 | 0.0850 to 0.115 | 91.9 | 70.0 to 130 | 4.94 | 20.0 |
| BC14030 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.104 | 0.103 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.12 | 1.11 | 0.986 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.897 | 20.0 |
| BC14030 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0997 | 0.0948 | 0.0960 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.04 | 20.0 |
| BC14030 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 92.8 | 81.2 | 4.85 | 4.25 to 5.75 | 114 | 70.0 to 130 | 13.3 | 20.0 |
| BC14029 | Chloride | mg/L | -0.0238 | 1.00 | 10.0 | 15.1 | 15.2 | 10.1 | 9.00 to 11.0 | 101 | 80.0 to 120 | 0.660 | 20.0 |
| BC14030 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0978 | 0.0992 | 0.0970 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.42 | 20.0 |
| BC14030 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0959 | 0.0969 | 0.0981 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 1.04 | 20.0 |
| BC14029 | Fluoride | mg/L | -0.0505 | 0.125 | 2.50 | 2.84 | 2.81 | 2.69 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.06 | 20.0 |
| BC14030 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 0.912 | 0.901 | 0.197 | 0.170 to 0.230 | 100 | 70.0 to 130 | 1.21 | 20.0 |
| BC14030 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.232 | 0.230 | 0.200 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.866 | 20.0 |
| BC14030 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 23.7 | 23.7 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.161 | 0.162 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.619 | 20.0 |
| BC14034 | Mercury, Dissolved by | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00364 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 0.274 | 20.0 |
| BC14030 | Molybdenum, Dissolved | mg/L | 0.0000008 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.00 | 20.0 |
| BC14030 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.5 | 11.3 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 1.75 | 20.0 |
| BC14030 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.105 | 0.102 | 0.0974 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 12.4 | 12.3 | 0.998 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.810 | 20.0 |
| BC14030 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 23.7 | 23.7 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14026 | Sulfate | mg/L | -0.546 | 2.0 | 640 | 1000 | 1050 | 19.4 | 18.0 to 22.0 | 95.8 | 80.0 to 120 | 4.88 | 20.0 |

Comments: The sample submitted was field filtered, all analyses are qualified as such. Filtered LCS and MB were not submitted or analyzed.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 12:05

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-7 DIS

Laboratory ID Number: BC14021

| Sample | Analysis | Units | MB | MB | | | | MSD | Standard | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|-----------|----------|-------|-------|-------|-------|-----------------|----------|-------|-------------|--|------|-------|
| | | | | Limit | Spike | MS | Limit | | | Rec | Limit | Prec | | | |
| BC14030 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.105 | 0.102 | 0.101 | 0.0850 to 0.115 | | 105 | 70.0 to 130 | | 2.90 | 20.0 |
| BC14029 | Total Organic Carbon | mg/L | 0.199 | 1.00 | 10.0 | 10.1 | 9.67 | 22.7 | | | 101 | 80.0 to 120 | | 4.35 | 20.0 |

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 12:05

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-7 DIS

Laboratory ID Number: BC14021

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------------------|-------------------|------------|-------------|-------|---------------|
| BC14021 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | | 50.8 | 45.0 to 55.0 | | | | 10.0 |
| BC14029 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.05 | 0.022 | 1.81 | 1.80 to 2.20 | 102 | 90.0 to 110 | 0.00 | 15.0 |
| BC14033 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 879 | 50.0 | 40.0 to 60.0 | | | 0.342 | 10.0 |

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-16

Location Code: WMWGORAP
Collected: 7/26/22 10:58
Customer ID:
Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14022

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 10:54 | | 1.015 | 0.0612 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 10:54 | | 1.015 | 13.7 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 10:54 | | 1.015 | 0.146 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 10:54 | | 1.015 | 0.0839 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 10:54 | | 1.015 | 2.08 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 10:54 | | 1 | 26.5 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 10:54 | | 1.015 | 12.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 12:42 | | 10.15 | 149 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 13:29 | | 1.015 | 0.0626 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 13:29 | | 1.015 | 11.2 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 13:29 | | 1.015 | 0.0156 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 13:29 | | 1.015 | 0.0792 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 13:29 | | 1.015 | 1.90 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 13:29 | | 1 | 25.0 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 13:29 | | 1.015 | 11.7 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 15:17 | | 10.15 | 148 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | 0.142 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | 0.00761 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | 0.198 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | 0.000449 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | 0.0000755 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | 0.000603 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | 0.00448 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | 0.00440 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | 3.42 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-16

Location Code: WMWGORAP
Collected: 7/26/22 10:58
Customer ID:
Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14022

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 11:44 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | 0.0190 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | 0.00747 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | 0.179 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | 0.000271 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | 0.00254 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | 0.00454 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | 3.27 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 16:31 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 14:04 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:26 | 7/28/22 16:26 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 302 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 369 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 253 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 47.5 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 01:25 | 8/4/22 01:25 | | 1 | 1.68 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-16

Location Code: WMWGORAP

Collected: 7/26/22 10:58

Customer ID:

Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14022

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 09:39 | 8/8/22 09:39 | | 1 | 4.94 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:24 | 8/8/22 13:24 | | 1 | 0.206 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:20 | 8/4/22 09:20 | | 1 | 38.0 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/26/22 10:55 | 7/26/22 10:55 | | | 706.16 | uS/cm | | | FA |
| pH | 7/26/22 10:55 | 7/26/22 10:55 | | | 9.29 | SU | | | FA |
| Temperature | 7/26/22 10:55 | 7/26/22 10:55 | | | 18.85 | C | | | FA |
| Turbidity | 7/26/22 10:55 | 7/26/22 10:55 | | | 1.8 | NTU | | | FA |
| Sulfide | 7/26/22 10:55 | 7/26/22 10:55 | | | 1.0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 10:58

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - PZ-16

Laboratory ID Number: BC14022

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC14030 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.110 | 0.108 | 0.106 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 |
| BC14030 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0876 | 0.0902 | 0.0889 | 0.0850 to 0.115 | 87.6 | 70.0 to 130 | 2.92 | 20.0 |
| BC14030 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0910 | 0.0926 | 0.0945 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.74 | 20.0 |
| BC14030 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.102 | 0.0973 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 0.158 | 0.166 | 0.0994 | 0.0850 to 0.115 | 91.9 | 70.0 to 130 | 4.94 | 20.0 |
| BC14030 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 0.165 | 0.164 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.104 | 0.103 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.101 | 0.102 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14030 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.12 | 1.11 | 0.986 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.897 | 20.0 |
| BC14030 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.13 | 1.14 | 1.01 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.881 | 20.0 |
| BC14030 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0997 | 0.0948 | 0.0960 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.04 | 20.0 |
| BC14030 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.102 | 0.0988 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.19 | 20.0 |
| BC14030 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 92.8 | 81.2 | 4.85 | 4.25 to 5.75 | 114 | 70.0 to 130 | 13.3 | 20.0 |
| BC14030 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 70.4 | 67.3 | 4.93 | 4.25 to 5.75 | 132 | 70.0 to 130 | 4.50 | 20.0 |
| BC14029 | Chloride | mg/L | -0.0238 | 1.00 | 10.0 | 15.1 | 15.2 | 10.1 | 9.00 to 11.0 | 101 | 80.0 to 120 | 0.660 | 20.0 |
| BC14030 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0978 | 0.0992 | 0.0970 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.42 | 20.0 |
| BC14030 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.101 | 0.0999 | 0.0997 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.10 | 20.0 |
| BC14030 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0959 | 0.0969 | 0.0981 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 1.04 | 20.0 |
| BC14030 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0990 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.608 | 20.0 |
| BC14029 | Fluoride | mg/L | -0.0505 | 0.125 | 2.50 | 2.84 | 2.81 | 2.69 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.06 | 20.0 |
| BC14030 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 0.912 | 0.901 | 0.197 | 0.170 to 0.230 | 100 | 70.0 to 130 | 1.21 | 20.0 |
| BC14030 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 0.935 | 0.938 | 0.202 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.320 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 10:58

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - PZ-16

Laboratory ID Number: BC14022

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.232 | 0.230 | 0.200 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.866 | 20.0 |
| BC14030 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.238 | 0.243 | 0.216 | 0.170 to 0.230 | 111 | 70.0 to 130 | 2.08 | 20.0 |
| BC14030 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 23.7 | 23.7 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 24.1 | 24.1 | 5.19 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.161 | 0.162 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.619 | 20.0 |
| BC14030 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.165 | 0.164 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00359 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 1.66 | 20.0 |
| BC14030 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.00 | 20.0 |
| BC14030 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.103 | 0.101 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.96 | 20.0 |
| BC14030 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.5 | 11.3 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 1.75 | 20.0 |
| BC14030 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.7 | 11.5 | 10.5 | 8.50 to 11.5 | 105 | 70.0 to 130 | 1.72 | 20.0 |
| BC14030 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.105 | 0.102 | 0.0974 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.107 | 0.106 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.939 | 20.0 |
| BC14030 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 12.4 | 12.3 | 0.998 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.810 | 20.0 |
| BC14030 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 12.4 | 12.4 | 1.02 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 23.7 | 23.7 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 24.4 | 24.5 | 5.29 | 4.25 to 5.75 | 118 | 70.0 to 130 | 0.409 | 20.0 |
| BC14026 | Sulfate | mg/L | -0.546 | 2.0 | 640 | 1000 | 1050 | 19.4 | 18.0 to 22.0 | 95.8 | 80.0 to 120 | 4.88 | 20.0 |
| BC14030 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.105 | 0.102 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.107 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14029 | Total Organic Carbon | mg/L | 0.199 | 1.00 | 10.0 | 10.1 | 9.67 | 22.7 | | 101 | 80.0 to 120 | 4.35 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 10:58

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - PZ-16

Laboratory ID Number: BC14022

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BC14031 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 225 | 50.8 | 45.0 to 55.0 | | | 0.445 | 10.0 |
| BC14029 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.05 | 0.022 | 1.81 | 1.80 to 2.20 | 102 | 90.0 to 110 | 0.00 | 15.0 |
| BC14033 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 879 | 50.0 | 40.0 to 60.0 | | | 0.342 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-37HR

Location Code: WMWGORAP
Collected: 7/26/22 14:03
Customer ID:
Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14023

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 10:57 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 10:57 | | 1.015 | 3.48 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 10:57 | | 1.015 | 0.0555 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 10:57 | | 1.015 | 0.0357 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 10:57 | | 1.015 | 1.17 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 10:57 | | 1 | 18.8 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 10:57 | | 1.015 | 8.80 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 12:45 | | 10.15 | 153 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 13:32 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 13:32 | | 1.015 | 3.85 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 13:32 | | 1.015 | 0.0212 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 13:32 | | 1.015 | 0.0338 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 13:32 | | 1.015 | 1.31 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 13:32 | | 1 | 18.4 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 13:32 | | 1.015 | 8.60 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 15:20 | | 10.15 | 154 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | 0.0325 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | 0.00101 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | 0.0171 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | 0.000407 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | 0.0169 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | 0.00536 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | 8.86 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-37HR

Location Code: WMWGORAP

Collected: 7/26/22 14:03

Customer ID:

Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14023

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 11:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | 0.00856 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | 0.00117 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | 0.0196 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | 0.000229 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | 0.0176 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | 0.00612 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | 10.1 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 16:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 14:06 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:28 | 7/28/22 16:28 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 206 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 331 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 203 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 2.70 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 01:42 | 8/4/22 01:42 | | 1 | 1.21 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-37HR

Location Code: WMWGORAP

Collected: 7/26/22 14:03

Customer ID:

Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14023

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 09:51 | 8/8/22 09:51 | | 3 | 32.1 | mg/L | 1.50 | 3 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:25 | 8/8/22 13:25 | | 1 | 0.143 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:21 | 8/4/22 09:21 | | 1 | 32.2 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/26/22 14:00 | 7/26/22 14:00 | | | 697.43 | uS/cm | | | FA |
| pH | 7/26/22 14:00 | 7/26/22 14:00 | | | 7.88 | SU | | | FA |
| Temperature | 7/26/22 14:00 | 7/26/22 14:00 | | | 21.90 | C | | | FA |
| Turbidity | 7/26/22 14:00 | 7/26/22 14:00 | | | 1.88 | NTU | | | FA |
| Sulfide | 7/26/22 14:00 | 7/26/22 14:00 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 14:03

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-37HR

Laboratory ID Number: BC14023

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | Standard Limit | Rec | | Prec Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|------------|------|
| | | | | Limit | Spike | | | | | Rec | Limit | | |
| BC14030 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.110 | 0.108 | 0.106 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 |
| BC14030 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0876 | 0.0902 | 0.0889 | 0.0850 to 0.115 | 87.6 | 70.0 to 130 | 2.92 | 20.0 |
| BC14030 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0910 | 0.0926 | 0.0945 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.74 | 20.0 |
| BC14030 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.102 | 0.0973 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 0.158 | 0.166 | 0.0994 | 0.0850 to 0.115 | 91.9 | 70.0 to 130 | 4.94 | 20.0 |
| BC14030 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 0.165 | 0.164 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.104 | 0.103 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.101 | 0.102 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14030 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.12 | 1.11 | 0.986 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.897 | 20.0 |
| BC14030 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.13 | 1.14 | 1.01 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.881 | 20.0 |
| BC14030 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0997 | 0.0948 | 0.0960 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.04 | 20.0 |
| BC14030 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.102 | 0.0988 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.19 | 20.0 |
| BC14030 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 92.8 | 81.2 | 4.85 | 4.25 to 5.75 | 114 | 70.0 to 130 | 13.3 | 20.0 |
| BC14030 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 70.4 | 67.3 | 4.93 | 4.25 to 5.75 | 132 | 70.0 to 130 | 4.50 | 20.0 |
| BC14029 | Chloride | mg/L | -0.0238 | 1.00 | 10.0 | 15.1 | 15.2 | 10.1 | 9.00 to 11.0 | 101 | 80.0 to 120 | 0.660 | 20.0 |
| BC14030 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0978 | 0.0992 | 0.0970 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.42 | 20.0 |
| BC14030 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.101 | 0.0999 | 0.0997 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.10 | 20.0 |
| BC14030 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0959 | 0.0969 | 0.0981 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 1.04 | 20.0 |
| BC14030 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0990 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.608 | 20.0 |
| BC14029 | Fluoride | mg/L | -0.0505 | 0.125 | 2.50 | 2.84 | 2.81 | 2.69 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.06 | 20.0 |
| BC14030 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 0.912 | 0.901 | 0.197 | 0.170 to 0.230 | 100 | 70.0 to 130 | 1.21 | 20.0 |
| BC14030 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 0.935 | 0.938 | 0.202 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.320 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 14:03

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-37HR

Laboratory ID Number: BC14023

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.232 | 0.230 | 0.200 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.866 | 20.0 |
| BC14030 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.238 | 0.243 | 0.216 | 0.170 to 0.230 | 111 | 70.0 to 130 | 2.08 | 20.0 |
| BC14030 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 23.7 | 23.7 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 24.1 | 24.1 | 5.19 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.161 | 0.162 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.619 | 20.0 |
| BC14030 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.165 | 0.164 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00359 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 1.66 | 20.0 |
| BC14030 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.00 | 20.0 |
| BC14030 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.103 | 0.101 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.96 | 20.0 |
| BC14030 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.5 | 11.3 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 1.75 | 20.0 |
| BC14030 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.7 | 11.5 | 10.5 | 8.50 to 11.5 | 105 | 70.0 to 130 | 1.72 | 20.0 |
| BC14030 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.105 | 0.102 | 0.0974 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.107 | 0.106 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.939 | 20.0 |
| BC14030 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 12.4 | 12.3 | 0.998 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.810 | 20.0 |
| BC14030 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 12.4 | 12.4 | 1.02 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 23.7 | 23.7 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 24.4 | 24.5 | 5.29 | 4.25 to 5.75 | 118 | 70.0 to 130 | 0.409 | 20.0 |
| BC14026 | Sulfate | mg/L | -0.546 | 2.0 | 640 | 1000 | 1050 | 19.4 | 18.0 to 22.0 | 95.8 | 80.0 to 120 | 4.88 | 20.0 |
| BC14030 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.105 | 0.102 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.107 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14029 | Total Organic Carbon | mg/L | 0.199 | 1.00 | 10.0 | 10.1 | 9.67 | 22.7 | | 101 | 80.0 to 120 | 4.35 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 14:03

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-37HR

Laboratory ID Number: BC14023

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC14031 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 225 | 50.8 | 45.0 to 55.0 | | | 0.445 | 10.0 |
| BC14029 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.05 | 0.022 | 1.81 | 1.80 to 2.20 | 102 | 90.0 to 110 | 0.00 | 15.0 |
| BC14033 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 879 | 50.0 | 40.0 to 60.0 | | | 0.342 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-47

Location Code: WMWGORAP
Collected: 7/26/22 16:01
Customer ID:
Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14024

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:00 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 11:00 | | 1.015 | 29.0 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:00 | | 1.015 | 0.364 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:00 | | 1.015 | 0.0429 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:00 | | 1.015 | 10.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:00 | | 1 | 23.8 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:00 | | 1.015 | 11.1 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:00 | | 1.015 | 30.8 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 13:35 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 13:35 | | 1.015 | 28.9 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 13:35 | | 1.015 | 0.282 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 13:35 | | 1.015 | 0.0409 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 13:35 | | 1.015 | 10.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 13:35 | | 1 | 23.5 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 13:35 | | 1.015 | 11.0 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 13:35 | | 1.015 | 33.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | 0.0111 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | 0.000423 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | 0.728 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | 0.000389 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | 0.000112 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | 0.0322 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | 0.00213 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | 4.55 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-47

Location Code: WMWGORAP
Collected: 7/26/22 16:01
Customer ID:
Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14024

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | 0.000345 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | 0.748 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | 0.000267 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | 0.000102 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | 0.0322 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | 0.00288 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | 5.33 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 16:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 14:08 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:30 | 7/28/22 16:30 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 150 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 190 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 149 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 1.14 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 02:03 | 8/4/22 02:03 | | 1 | 1.08 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-47

Location Code: WMWGORAP

Collected: 7/26/22 16:01

Customer ID:

Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14024

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 09:42 | 8/8/22 09:42 | | 1 | 15.4 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:27 | 8/8/22 13:27 | | 1 | 0.0601 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:22 | 8/4/22 09:22 | | 1 | 16.7 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/26/22 15:58 | 7/26/22 15:58 | | | 772.42 | uS/cm | | | FA |
| pH | 7/26/22 15:58 | 7/26/22 15:58 | | | 7.32 | SU | | | FA |
| Temperature | 7/26/22 15:58 | 7/26/22 15:58 | | | 20.95 | C | | | FA |
| Turbidity | 7/26/22 15:58 | 7/26/22 15:58 | | | 1.95 | NTU | | | FA |
| Sulfide | 7/26/22 15:58 | 7/26/22 15:58 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 16:01

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-47

Laboratory ID Number: BC14024

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC14030 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14030 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.110 | 0.108 | 0.106 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 | |
| BC14030 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0876 | 0.0902 | 0.0889 | 0.0850 to 0.115 | 87.6 | 70.0 to 130 | 2.92 | 20.0 | |
| BC14030 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0910 | 0.0926 | 0.0945 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.74 | 20.0 | |
| BC14030 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.102 | 0.0973 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 | |
| BC14030 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14030 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 0.158 | 0.166 | 0.0994 | 0.0850 to 0.115 | 91.9 | 70.0 to 130 | 4.94 | 20.0 | |
| BC14030 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 0.165 | 0.164 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.608 | 20.0 | |
| BC14030 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.104 | 0.103 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14030 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.101 | 0.102 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 | |
| BC14030 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.12 | 1.11 | 0.986 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.897 | 20.0 | |
| BC14030 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.13 | 1.14 | 1.01 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.881 | 20.0 | |
| BC14030 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0997 | 0.0948 | 0.0960 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.04 | 20.0 | |
| BC14030 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.102 | 0.0988 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.19 | 20.0 | |
| BC14030 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 92.8 | 81.2 | 4.85 | 4.25 to 5.75 | 114 | 70.0 to 130 | 13.3 | 20.0 | |
| BC14030 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 70.4 | 67.3 | 4.93 | 4.25 to 5.75 | 132 | 70.0 to 130 | 4.50 | 20.0 | |
| BC14029 | Chloride | mg/L | -0.0238 | 1.00 | 10.0 | 15.1 | 15.2 | 10.1 | 9.00 to 11.0 | 101 | 80.0 to 120 | 0.660 | 20.0 | |
| BC14030 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0978 | 0.0992 | 0.0970 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.42 | 20.0 | |
| BC14030 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.101 | 0.0999 | 0.0997 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.10 | 20.0 | |
| BC14030 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0959 | 0.0969 | 0.0981 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 1.04 | 20.0 | |
| BC14030 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0990 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.608 | 20.0 | |
| BC14029 | Fluoride | mg/L | -0.0505 | 0.125 | 2.50 | 2.84 | 2.81 | 2.69 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.06 | 20.0 | |
| BC14030 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 0.912 | 0.901 | 0.197 | 0.170 to 0.230 | 100 | 70.0 to 130 | 1.21 | 20.0 | |
| BC14030 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 0.935 | 0.938 | 0.202 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.320 | 20.0 | |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 16:01

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-47

Laboratory ID Number: BC14024

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.232 | 0.230 | 0.200 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.866 | 20.0 |
| BC14030 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.238 | 0.243 | 0.216 | 0.170 to 0.230 | 111 | 70.0 to 130 | 2.08 | 20.0 |
| BC14030 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 23.7 | 23.7 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 24.1 | 24.1 | 5.19 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.161 | 0.162 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.619 | 20.0 |
| BC14030 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.165 | 0.164 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00359 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 1.66 | 20.0 |
| BC14030 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.00 | 20.0 |
| BC14030 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.103 | 0.101 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.96 | 20.0 |
| BC14030 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.5 | 11.3 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 1.75 | 20.0 |
| BC14030 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.7 | 11.5 | 10.5 | 8.50 to 11.5 | 105 | 70.0 to 130 | 1.72 | 20.0 |
| BC14030 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.105 | 0.102 | 0.0974 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.107 | 0.106 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.939 | 20.0 |
| BC14030 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 12.4 | 12.3 | 0.998 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.810 | 20.0 |
| BC14030 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 12.4 | 12.4 | 1.02 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 23.7 | 23.7 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 24.4 | 24.5 | 5.29 | 4.25 to 5.75 | 118 | 70.0 to 130 | 0.409 | 20.0 |
| BC14026 | Sulfate | mg/L | -0.546 | 2.0 | 640 | 1000 | 1050 | 19.4 | 18.0 to 22.0 | 95.8 | 80.0 to 120 | 4.88 | 20.0 |
| BC14030 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.105 | 0.102 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.107 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14029 | Total Organic Carbon | mg/L | 0.199 | 1.00 | 10.0 | 10.1 | 9.67 | 22.7 | | 101 | 80.0 to 120 | 4.35 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 16:01

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond - MW-47

Laboratory ID Number: BC14024

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|-----|-------------|-------|------------|
| BC14031 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 225 | 50.8 | 45.0 to 55.0 | | | 0.445 | 10.0 |
| BC14029 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.05 | 0.022 | 1.81 | 1.80 to 2.20 | 102 | 90.0 to 110 | 0.00 | 15.0 |
| BC14033 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 879 | 50.0 | 40.0 to 60.0 | | | 0.342 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-3

Location Code: WMWGORAPFB
Collected: 7/26/22 16:30
Customer ID:
Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14025

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:03 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 11:03 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:03 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:03 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:03 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:03 | | 1 | Not Detected | mg/L | | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:03 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:03 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | 0.00726 | mg/L | 0.006090 | 0.01015 | J | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | 0.000304 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U | |
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 12:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 14:11 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U | |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:32 | 7/28/22 16:32 | | 1 | 0.289 | mg/L as N | 0.20 | 0.3 | J | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | Not Detected | mg/L | | 25 | U | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-3

Location Code: WMWGORAPFB

Collected: 7/26/22 16:30

Customer ID:

Submittal Date: 7/28/22 09:48

Laboratory ID Number: BC14025

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 02:22 | 8/4/22 02:22 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 09:43 | 8/8/22 09:43 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:28 | 8/8/22 13:28 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:23 | 8/4/22 09:23 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/26/22 16:30

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond Field Blank-3

Laboratory ID Number: BC14025

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.110 | 0.108 | 0.106 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 |
| BC14030 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0910 | 0.0926 | 0.0945 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.74 | 20.0 |
| BC14030 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 0.165 | 0.164 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.101 | 0.102 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14030 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.13 | 1.14 | 1.01 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.881 | 20.0 |
| BC14030 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.102 | 0.0988 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.19 | 20.0 |
| BC14030 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 70.4 | 67.3 | 4.93 | 4.25 to 5.75 | 132 | 70.0 to 130 | 4.50 | 20.0 |
| BC14029 | Chloride | mg/L | -0.0238 | 1.00 | 10.0 | 15.1 | 15.2 | 10.1 | 9.00 to 11.0 | 101 | 80.0 to 120 | 0.660 | 20.0 |
| BC14030 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.101 | 0.0999 | 0.0997 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.10 | 20.0 |
| BC14030 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0990 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.608 | 20.0 |
| BC14029 | Fluoride | mg/L | -0.0505 | 0.125 | 2.50 | 2.84 | 2.81 | 2.69 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.06 | 20.0 |
| BC14030 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 0.935 | 0.938 | 0.202 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.320 | 20.0 |
| BC14030 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.238 | 0.243 | 0.216 | 0.170 to 0.230 | 111 | 70.0 to 130 | 2.08 | 20.0 |
| BC14030 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 24.1 | 24.1 | 5.19 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.165 | 0.164 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00359 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 1.66 | 20.0 |
| BC14030 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.103 | 0.101 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.96 | 20.0 |
| BC14030 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.7 | 11.5 | 10.5 | 8.50 to 11.5 | 105 | 70.0 to 130 | 1.72 | 20.0 |
| BC14030 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.107 | 0.106 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.939 | 20.0 |
| BC14030 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 12.4 | 12.4 | 1.02 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 24.4 | 24.5 | 5.29 | 4.25 to 5.75 | 118 | 70.0 to 130 | 0.409 | 20.0 |
| BC14026 | Sulfate | mg/L | -0.546 | 2.0 | 640 | 1000 | 1050 | 19.4 | 18.0 to 22.0 | 95.8 | 80.0 to 120 | 4.88 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/26/22 16:30

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond Field Blank-3

Laboratory ID Number: BC14025

| Sample | Analysis | Units | MB | MB | | | | MSD | Standard | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|-----------|----------|-------|-------|-------|-------|-----------------|----------|-------|-------------|--|------|-------|
| | | | | Limit | Spike | MS | Limit | | | Rec | Limit | Prec | | | |
| BC14030 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.107 | 0.0850 to 0.115 | | 105 | 70.0 to 130 | | 0.00 | 20.0 |
| BC14029 | Total Organic Carbon | mg/L | 0.199 | 1.00 | 10.0 | 10.1 | 9.67 | 22.7 | | | 101 | 80.0 to 120 | | 4.35 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/26/22 16:30

Customer ID:

Delivery Date: 7/28/22 09:48

Description: Gorgas Ash Pond Field Blank-3

Laboratory ID Number: BC14025

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BC14029 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.05 | 0.022 | 1.81 | 1.80 to 2.20 | 102 | 90.0 to 110 | 0.00 | 15.0 |
| BC14033 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 879 | 50.0 | 40.0 to 60.0 | | | 0.342 | 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36V

Location Code: WMWGORAP
Collected: 7/27/22 09:42
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14026

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:06 | | 1.015 | 0.0689 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 11:06 | | 1.015 | 33.9 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:06 | | 1.015 | 0.517 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:06 | | 1.015 | 0.0378 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:06 | | 1.015 | 12.7 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:06 | | 1 | 15.8 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:06 | | 1.015 | 7.38 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 12:48 | | 101.5 | 438 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 13:38 | | 1.015 | 0.0685 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 13:38 | | 1.015 | 31.9 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 13:38 | | 1.015 | 0.465 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 13:38 | | 1.015 | 0.0370 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 13:38 | | 1.015 | 12.2 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 13:38 | | 1 | 15.5 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 13:38 | | 1.015 | 7.22 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 15:23 | | 101.5 | 406 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | 0.0153 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | 0.00447 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | 0.114 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | 0.000348 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | 0.000136 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | 0.0725 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | 0.0268 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | 61.1 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36V

Location Code: WMWGORAP

Collected: 7/27/22 09:42

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14026

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 12:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | 0.00363 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | 0.111 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | 0.000256 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | 0.000111 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | 0.0694 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | 0.0243 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | 58.1 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 16:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 14:13 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:33 | 7/28/22 16:33 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 298 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 1480 | mg/L | | 125 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 297 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 1.01 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 02:41 | 8/4/22 02:41 | | 1 | 8.84 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-36V

Location Code: WMWGORAP

Collected: 7/27/22 09:42

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14026

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 09:52 | 8/8/22 09:52 | | 32 | 436 | mg/L | 16.00 | 32 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:29 | 8/8/22 13:29 | | 1 | 0.380 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 09:40 | 8/4/22 09:40 | | 32 | 387 | mg/L | 19.2 | 64 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/27/22 09:39 | 7/27/22 09:39 | | | 4647.65 | uS/cm | | | FA |
| pH | 7/27/22 09:39 | 7/27/22 09:39 | | | 7.14 | SU | | | FA |
| Temperature | 7/27/22 09:39 | 7/27/22 09:39 | | | 20.56 | C | | | FA |
| Turbidity | 7/27/22 09:39 | 7/27/22 09:39 | | | 1.06 | NTU | | | FA |
| Sulfide | 7/27/22 09:39 | 7/27/22 09:39 | | | 2.0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 09:42

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-36V

Laboratory ID Number: BC14026

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | Standard Limit | Rec | | Prec Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|------------|------|
| | | | | Limit | Spike | | | | | Rec | Limit | | |
| BC14030 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.110 | 0.108 | 0.106 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 |
| BC14030 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0876 | 0.0902 | 0.0889 | 0.0850 to 0.115 | 87.6 | 70.0 to 130 | 2.92 | 20.0 |
| BC14030 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0910 | 0.0926 | 0.0945 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.74 | 20.0 |
| BC14030 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.102 | 0.0973 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 0.158 | 0.166 | 0.0994 | 0.0850 to 0.115 | 91.9 | 70.0 to 130 | 4.94 | 20.0 |
| BC14030 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 0.165 | 0.164 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.104 | 0.103 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.101 | 0.102 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14030 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.12 | 1.11 | 0.986 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.897 | 20.0 |
| BC14030 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.13 | 1.14 | 1.01 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.881 | 20.0 |
| BC14030 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0997 | 0.0948 | 0.0960 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.04 | 20.0 |
| BC14030 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.102 | 0.0988 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.19 | 20.0 |
| BC14030 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 92.8 | 81.2 | 4.85 | 4.25 to 5.75 | 114 | 70.0 to 130 | 13.3 | 20.0 |
| BC14030 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 70.4 | 67.3 | 4.93 | 4.25 to 5.75 | 132 | 70.0 to 130 | 4.50 | 20.0 |
| BC14029 | Chloride | mg/L | -0.0238 | 1.00 | 10.0 | 15.1 | 15.2 | 10.1 | 9.00 to 11.0 | 101 | 80.0 to 120 | 0.660 | 20.0 |
| BC14030 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0978 | 0.0992 | 0.0970 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.42 | 20.0 |
| BC14030 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.101 | 0.0999 | 0.0997 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.10 | 20.0 |
| BC14030 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0959 | 0.0969 | 0.0981 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 1.04 | 20.0 |
| BC14030 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0990 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.608 | 20.0 |
| BC14029 | Fluoride | mg/L | -0.0505 | 0.125 | 2.50 | 2.84 | 2.81 | 2.69 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.06 | 20.0 |
| BC14030 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 0.912 | 0.901 | 0.197 | 0.170 to 0.230 | 100 | 70.0 to 130 | 1.21 | 20.0 |
| BC14030 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 0.935 | 0.938 | 0.202 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.320 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 09:42

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-36V

Laboratory ID Number: BC14026

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.232 | 0.230 | 0.200 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.866 | 20.0 |
| BC14030 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.238 | 0.243 | 0.216 | 0.170 to 0.230 | 111 | 70.0 to 130 | 2.08 | 20.0 |
| BC14030 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 23.7 | 23.7 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 24.1 | 24.1 | 5.19 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.161 | 0.162 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.619 | 20.0 |
| BC14030 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.165 | 0.164 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00359 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 1.66 | 20.0 |
| BC14030 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.00 | 20.0 |
| BC14030 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.103 | 0.101 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.96 | 20.0 |
| BC14030 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.5 | 11.3 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 1.75 | 20.0 |
| BC14030 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.7 | 11.5 | 10.5 | 8.50 to 11.5 | 105 | 70.0 to 130 | 1.72 | 20.0 |
| BC14030 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.105 | 0.102 | 0.0974 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.107 | 0.106 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.939 | 20.0 |
| BC14030 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 12.4 | 12.3 | 0.998 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.810 | 20.0 |
| BC14030 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 12.4 | 12.4 | 1.02 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 23.7 | 23.7 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 24.4 | 24.5 | 5.29 | 4.25 to 5.75 | 118 | 70.0 to 130 | 0.409 | 20.0 |
| BC14026 | Sulfate | mg/L | -0.546 | 2.0 | 640 | 1000 | 1050 | 19.4 | 18.0 to 22.0 | 95.8 | 80.0 to 120 | 4.88 | 20.0 |
| BC14030 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.105 | 0.102 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.107 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14029 | Total Organic Carbon | mg/L | 0.199 | 1.00 | 10.0 | 10.1 | 9.67 | 22.7 | | 101 | 80.0 to 120 | 4.35 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 09:42

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-36V

Laboratory ID Number: BC14026

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC14031 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 225 | 50.8 | 45.0 to 55.0 | | | 0.445 | 10.0 |
| BC14029 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.05 | 0.022 | 1.81 | 1.80 to 2.20 | 102 | 90.0 to 110 | 0.00 | 15.0 |
| BC14033 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 879 | 50.0 | 40.0 to 60.0 | | | 0.342 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-27HR

Location Code: WMWGORAP
Collected: 7/27/22 11:27
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14027

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:09 | | 1.015 | 0.107 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 12:51 | | 101.5 | 65.1 | mg/L | 7.0035 | 40.6 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:09 | | 1.015 | 0.113 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:09 | | 1.015 | 0.0935 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:09 | | 1.015 | 14.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:09 | | 1 | 16.4 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:09 | | 1.015 | 7.67 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 12:51 | | 101.5 | 862 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 13:41 | | 1.015 | 0.109 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 10:29 | | 101.5 | 86.8 | mg/L | 7.0035 | 40.6 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 13:41 | | 1.015 | 0.0951 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 13:41 | | 1.015 | 0.0911 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 13:41 | | 1.015 | 14.0 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 13:41 | | 1 | 16.3 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 13:41 | | 1.015 | 7.63 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 15:26 | | 101.5 | 831 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | 0.0303 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | 0.00148 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | 0.0599 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | 0.000354 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | 0.426 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | 0.0101 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | 21.8 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-27HR

Location Code: WMWGORAP

Collected: 7/27/22 11:27

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14027

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 12:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | 0.00815 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | 0.00137 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | 0.0583 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | 0.000251 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | 0.422 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | 0.00806 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | 18.4 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 16:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 14:15 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:35 | 7/28/22 16:35 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 294 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 2290 | mg/L | | 208.3 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 292 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 1.69 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 03:01 | 8/4/22 03:01 | | 1 | 15.7 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-27HR

Location Code: WMWGORAP

Collected: 7/27/22 11:27

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14027

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 09:54 | 8/8/22 09:54 | | 32 | 635 | mg/L | 16.00 | 32 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:30 | 8/8/22 13:30 | | 1 | 0.263 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:22 | 8/4/22 10:22 | | 40 | 593 | mg/L | 24.0 | 80 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/27/22 11:24 | 7/27/22 11:24 | | | 5265.7 | uS/cm | | | FA |
| pH | 7/27/22 11:24 | 7/27/22 11:24 | | | 7.44 | SU | | | FA |
| Temperature | 7/27/22 11:24 | 7/27/22 11:24 | | | 21.11 | C | | | FA |
| Turbidity | 7/27/22 11:24 | 7/27/22 11:24 | | | 1.27 | NTU | | | FA |
| Sulfide | 7/27/22 11:24 | 7/27/22 11:24 | | | 4.0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 11:27

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-27HR

Laboratory ID Number: BC14027

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | Standard | | Rec | | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|------|
| | | | | Limit | Spike | | | | Limit | Limit | Prec | Limit | |
| BC14030 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.110 | 0.108 | 0.106 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 |
| BC14030 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0876 | 0.0902 | 0.0889 | 0.0850 to 0.115 | 87.6 | 70.0 to 130 | 2.92 | 20.0 |
| BC14030 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0910 | 0.0926 | 0.0945 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.74 | 20.0 |
| BC14030 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.102 | 0.0973 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 0.158 | 0.166 | 0.0994 | 0.0850 to 0.115 | 91.9 | 70.0 to 130 | 4.94 | 20.0 |
| BC14030 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 0.165 | 0.164 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.104 | 0.103 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.101 | 0.102 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14030 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.12 | 1.11 | 0.986 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.897 | 20.0 |
| BC14030 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.13 | 1.14 | 1.01 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.881 | 20.0 |
| BC14030 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0997 | 0.0948 | 0.0960 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.04 | 20.0 |
| BC14030 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.102 | 0.0988 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.19 | 20.0 |
| BC14030 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 92.8 | 81.2 | 4.85 | 4.25 to 5.75 | 114 | 70.0 to 130 | 13.3 | 20.0 |
| BC14030 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 70.4 | 67.3 | 4.93 | 4.25 to 5.75 | 132 | 70.0 to 130 | 4.50 | 20.0 |
| BC14029 | Chloride | mg/L | -0.0238 | 1.00 | 10.0 | 15.1 | 15.2 | 10.1 | 9.00 to 11.0 | 101 | 80.0 to 120 | 0.660 | 20.0 |
| BC14030 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0978 | 0.0992 | 0.0970 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.42 | 20.0 |
| BC14030 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.101 | 0.0999 | 0.0997 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.10 | 20.0 |
| BC14030 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0959 | 0.0969 | 0.0981 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 1.04 | 20.0 |
| BC14030 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0990 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.608 | 20.0 |
| BC14029 | Fluoride | mg/L | -0.0505 | 0.125 | 2.50 | 2.84 | 2.81 | 2.69 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.06 | 20.0 |
| BC14030 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 0.912 | 0.901 | 0.197 | 0.170 to 0.230 | 100 | 70.0 to 130 | 1.21 | 20.0 |
| BC14030 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 0.935 | 0.938 | 0.202 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.320 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 11:27

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-27HR

Laboratory ID Number: BC14027

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.232 | 0.230 | 0.200 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.866 | 20.0 |
| BC14030 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.238 | 0.243 | 0.216 | 0.170 to 0.230 | 111 | 70.0 to 130 | 2.08 | 20.0 |
| BC14030 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 23.7 | 23.7 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 24.1 | 24.1 | 5.19 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.161 | 0.162 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.619 | 20.0 |
| BC14030 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.165 | 0.164 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00359 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 1.66 | 20.0 |
| BC14030 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.00 | 20.0 |
| BC14030 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.103 | 0.101 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.96 | 20.0 |
| BC14030 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.5 | 11.3 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 1.75 | 20.0 |
| BC14030 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.7 | 11.5 | 10.5 | 8.50 to 11.5 | 105 | 70.0 to 130 | 1.72 | 20.0 |
| BC14030 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.105 | 0.102 | 0.0974 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.107 | 0.106 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.939 | 20.0 |
| BC14030 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 12.4 | 12.3 | 0.998 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.810 | 20.0 |
| BC14030 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 12.4 | 12.4 | 1.02 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 23.7 | 23.7 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 24.4 | 24.5 | 5.29 | 4.25 to 5.75 | 118 | 70.0 to 130 | 0.409 | 20.0 |
| BC14036 | Sulfate | mg/L | 0.103 | 2.0 | 160 | 265 | 267 | 19.2 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.752 | 20.0 |
| BC14030 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.105 | 0.102 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.107 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14029 | Total Organic Carbon | mg/L | 0.199 | 1.00 | 10.0 | 10.1 | 9.67 | 22.7 | | 101 | 80.0 to 120 | 4.35 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 11:27

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-27HR

Laboratory ID Number: BC14027

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC14031 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 225 | 50.8 | 45.0 to 55.0 | | | 0.445 | 10.0 |
| BC14029 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.05 | 0.022 | 1.81 | 1.80 to 2.20 | 102 | 90.0 to 110 | 0.00 | 15.0 |
| BC14033 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 879 | 50.0 | 40.0 to 60.0 | | | 0.342 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-28H

Location Code: WMWGORAP
Collected: 7/27/22 13:03
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14028

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:12 | | 1.015 | 0.0663 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 11:12 | | 1.015 | 1.45 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:12 | | 1.015 | 0.0807 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:12 | | 1.015 | 0.0603 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:12 | | 1.015 | 0.494 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:12 | | 1 | 17.1 | mg/L | | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:12 | | 1.015 | 7.97 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 12:54 | | 10.15 | 202 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 13:44 | | 1.015 | 0.0678 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 13:44 | | 1.015 | 1.39 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 13:44 | | 1.015 | 0.0463 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 13:44 | | 1.015 | 0.0589 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 13:44 | | 1.015 | 0.485 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 13:44 | | 1 | 16.8 | mg/L | | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 13:44 | | 1.015 | 7.84 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 15:29 | | 10.15 | 188 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | 0.0261 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | 0.000436 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | 0.0482 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | 0.000336 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | 0.00554 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | 0.00336 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | 0.887 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-28H

Location Code: WMWGORAP

Collected: 7/27/22 13:03

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14028

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 12:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | 0.00809 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | 0.000328 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | 0.0490 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | 0.000209 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | 0.00518 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | 0.00311 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | 0.884 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 17:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 14:18 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:37 | 7/28/22 16:37 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 387 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/2/22 12:20 | 8/3/22 13:03 | | 1 | 426 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 372 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 14.9 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 03:25 | 8/4/22 03:25 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-28H

Location Code: WMWGORAP

Collected: 7/27/22 13:03

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14028

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 09:46 | 8/8/22 09:46 | | 1 | 7.71 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:31 | 8/8/22 13:31 | | 1 | 0.179 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:09 | 8/4/22 10:09 | | 1 | 2.87 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/27/22 13:00 | 7/27/22 13:00 | | | 1349.92 | uS/cm | | | FA |
| pH | 7/27/22 13:00 | 7/27/22 13:00 | | | 8.43 | SU | | | FA |
| Temperature | 7/27/22 13:00 | 7/27/22 13:00 | | | 18.61 | C | | | FA |
| Turbidity | 7/27/22 13:00 | 7/27/22 13:00 | | | 1.33 | NTU | | | FA |
| Sulfide | 7/27/22 13:00 | 7/27/22 13:00 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 13:03

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: BC14028

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | Standard Limit | Rec | | Prec Limit | |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|------------|------|
| | | | | Limit | Spike | | | | | Rec | Limit | | |
| BC14030 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.110 | 0.108 | 0.106 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 |
| BC14030 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0876 | 0.0902 | 0.0889 | 0.0850 to 0.115 | 87.6 | 70.0 to 130 | 2.92 | 20.0 |
| BC14030 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0910 | 0.0926 | 0.0945 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.74 | 20.0 |
| BC14030 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.102 | 0.0973 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 0.158 | 0.166 | 0.0994 | 0.0850 to 0.115 | 91.9 | 70.0 to 130 | 4.94 | 20.0 |
| BC14030 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 0.165 | 0.164 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.104 | 0.103 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.101 | 0.102 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14030 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.12 | 1.11 | 0.986 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.897 | 20.0 |
| BC14030 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.13 | 1.14 | 1.01 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.881 | 20.0 |
| BC14030 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0997 | 0.0948 | 0.0960 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.04 | 20.0 |
| BC14030 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.102 | 0.0988 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.19 | 20.0 |
| BC14030 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 92.8 | 81.2 | 4.85 | 4.25 to 5.75 | 114 | 70.0 to 130 | 13.3 | 20.0 |
| BC14030 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 70.4 | 67.3 | 4.93 | 4.25 to 5.75 | 132 | 70.0 to 130 | 4.50 | 20.0 |
| BC14029 | Chloride | mg/L | -0.0238 | 1.00 | 10.0 | 15.1 | 15.2 | 10.1 | 9.00 to 11.0 | 101 | 80.0 to 120 | 0.660 | 20.0 |
| BC14030 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0978 | 0.0992 | 0.0970 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.42 | 20.0 |
| BC14030 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.101 | 0.0999 | 0.0997 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.10 | 20.0 |
| BC14030 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0959 | 0.0969 | 0.0981 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 1.04 | 20.0 |
| BC14030 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0990 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.608 | 20.0 |
| BC14029 | Fluoride | mg/L | -0.0505 | 0.125 | 2.50 | 2.84 | 2.81 | 2.69 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.06 | 20.0 |
| BC14030 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 0.912 | 0.901 | 0.197 | 0.170 to 0.230 | 100 | 70.0 to 130 | 1.21 | 20.0 |
| BC14030 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 0.935 | 0.938 | 0.202 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.320 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 13:03

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: BC14028

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.232 | 0.230 | 0.200 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.866 | 20.0 |
| BC14030 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.238 | 0.243 | 0.216 | 0.170 to 0.230 | 111 | 70.0 to 130 | 2.08 | 20.0 |
| BC14030 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 23.7 | 23.7 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 24.1 | 24.1 | 5.19 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.161 | 0.162 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.619 | 20.0 |
| BC14030 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.165 | 0.164 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00359 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 1.66 | 20.0 |
| BC14030 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.00 | 20.0 |
| BC14030 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.103 | 0.101 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.96 | 20.0 |
| BC14030 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.5 | 11.3 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 1.75 | 20.0 |
| BC14030 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.7 | 11.5 | 10.5 | 8.50 to 11.5 | 105 | 70.0 to 130 | 1.72 | 20.0 |
| BC14030 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.105 | 0.102 | 0.0974 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.107 | 0.106 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.939 | 20.0 |
| BC14030 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 12.4 | 12.3 | 0.998 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.810 | 20.0 |
| BC14030 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 12.4 | 12.4 | 1.02 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 23.7 | 23.7 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 24.4 | 24.5 | 5.29 | 4.25 to 5.75 | 118 | 70.0 to 130 | 0.409 | 20.0 |
| BC14036 | Sulfate | mg/L | 0.103 | 2.0 | 160 | 265 | 267 | 19.2 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.752 | 20.0 |
| BC14030 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.105 | 0.102 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.107 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14029 | Total Organic Carbon | mg/L | 0.199 | 1.00 | 10.0 | 10.1 | 9.67 | 22.7 | | 101 | 80.0 to 120 | 4.35 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 13:03

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-28H

Laboratory ID Number: BC14028

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|-----|-------------|-------|------------|
| BC14031 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 225 | 50.8 | 45.0 to 55.0 | | | 0.445 | 10.0 |
| BC14029 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.05 | 0.022 | 1.81 | 1.80 to 2.20 | 102 | 90.0 to 110 | 0.00 | 15.0 |
| BC14030 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 306 | 52.0 | 40.0 to 60.0 | | | 0.00 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-18R

Location Code: WMWGORAP
Collected: 7/27/22 14:35
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14029

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:15 | | 1.015 | 0.0879 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 12:56 | | 10.15 | 63.1 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:15 | | 1.015 | 0.743 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:15 | | 1.015 | 0.0172 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:15 | | 1.015 | 18.9 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:15 | | 1 | 24.4 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:15 | | 1.015 | 11.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:15 | | 1.015 | 18.8 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 13:47 | | 1.015 | 0.0897 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 10:35 | | 10.15 | 80.2 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 13:47 | | 1.015 | 0.710 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 13:47 | | 1.015 | 0.0165 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 13:47 | | 1.015 | 18.6 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 13:47 | | 1 | 24.2 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 13:47 | | 1.015 | 11.3 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 13:47 | | 1.015 | 18.5 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | 0.00143 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | 0.0668 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | 0.000346 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | 0.000105 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | 0.0605 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | 0.000765 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | 1.25 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-18R

Location Code: WMWGORAP

Collected: 7/27/22 14:35

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14029

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 12:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | 0.00140 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | 0.0655 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | 0.000099 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | 0.0578 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | 0.000778 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | 1.21 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 17:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 14:20 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:39 | 7/28/22 16:39 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 211 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/2/22 12:20 | 8/3/22 13:03 | | 1 | 307 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 210 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 0.77 | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 03:49 | 8/4/22 03:49 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-18R

Location Code: WMWGORAP

Collected: 7/27/22 14:35

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14029

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 09:48 | 8/8/22 09:48 | | 1 | 4.98 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:33 | 8/8/22 13:33 | | 1 | 0.157 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:23 | 8/4/22 10:23 | | 2 | 48.2 | mg/L | 1.2 | 4 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/27/22 14:32 | 7/27/22 14:32 | | | 1024.62 | uS/cm | | | FA |
| pH | 7/27/22 14:32 | 7/27/22 14:32 | | | 7.18 | SU | | | FA |
| Temperature | 7/27/22 14:32 | 7/27/22 14:32 | | | 18.65 | C | | | FA |
| Turbidity | 7/27/22 14:32 | 7/27/22 14:32 | | | 0.92 | NTU | | | FA |
| Sulfide | 7/27/22 14:32 | 7/27/22 14:32 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 14:35

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - PZ-18R

Laboratory ID Number: BC14029

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC14030 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.110 | 0.108 | 0.106 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 |
| BC14030 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0876 | 0.0902 | 0.0889 | 0.0850 to 0.115 | 87.6 | 70.0 to 130 | 2.92 | 20.0 |
| BC14030 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0910 | 0.0926 | 0.0945 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.74 | 20.0 |
| BC14030 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.102 | 0.0973 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 0.158 | 0.166 | 0.0994 | 0.0850 to 0.115 | 91.9 | 70.0 to 130 | 4.94 | 20.0 |
| BC14030 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 0.165 | 0.164 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.104 | 0.103 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14030 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.101 | 0.102 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14030 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.12 | 1.11 | 0.986 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.897 | 20.0 |
| BC14030 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.13 | 1.14 | 1.01 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.881 | 20.0 |
| BC14030 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0997 | 0.0948 | 0.0960 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.04 | 20.0 |
| BC14030 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.102 | 0.0988 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.19 | 20.0 |
| BC14030 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 92.8 | 81.2 | 4.85 | 4.25 to 5.75 | 114 | 70.0 to 130 | 13.3 | 20.0 |
| BC14030 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 70.4 | 67.3 | 4.93 | 4.25 to 5.75 | 132 | 70.0 to 130 | 4.50 | 20.0 |
| BC14029 | Chloride | mg/L | -0.0238 | 1.00 | 10.0 | 15.1 | 15.2 | 10.1 | 9.00 to 11.0 | 101 | 80.0 to 120 | 0.660 | 20.0 |
| BC14030 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0978 | 0.0992 | 0.0970 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.42 | 20.0 |
| BC14030 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.101 | 0.0999 | 0.0997 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.10 | 20.0 |
| BC14030 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0959 | 0.0969 | 0.0981 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 1.04 | 20.0 |
| BC14030 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0990 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.608 | 20.0 |
| BC14029 | Fluoride | mg/L | -0.0505 | 0.125 | 2.50 | 2.84 | 2.81 | 2.69 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.06 | 20.0 |
| BC14030 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 0.912 | 0.901 | 0.197 | 0.170 to 0.230 | 100 | 70.0 to 130 | 1.21 | 20.0 |
| BC14030 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 0.935 | 0.938 | 0.202 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.320 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 14:35

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - PZ-18R

Laboratory ID Number: BC14029

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.232 | 0.230 | 0.200 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.866 | 20.0 |
| BC14030 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.238 | 0.243 | 0.216 | 0.170 to 0.230 | 111 | 70.0 to 130 | 2.08 | 20.0 |
| BC14030 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 23.7 | 23.7 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 24.1 | 24.1 | 5.19 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.161 | 0.162 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.619 | 20.0 |
| BC14030 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.165 | 0.164 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00359 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 1.66 | 20.0 |
| BC14030 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.00 | 20.0 |
| BC14030 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.103 | 0.101 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.96 | 20.0 |
| BC14030 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.5 | 11.3 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 1.75 | 20.0 |
| BC14030 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.7 | 11.5 | 10.5 | 8.50 to 11.5 | 105 | 70.0 to 130 | 1.72 | 20.0 |
| BC14030 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.105 | 0.102 | 0.0974 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.107 | 0.106 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.939 | 20.0 |
| BC14030 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 12.4 | 12.3 | 0.998 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.810 | 20.0 |
| BC14030 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 12.4 | 12.4 | 1.02 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 23.7 | 23.7 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 24.4 | 24.5 | 5.29 | 4.25 to 5.75 | 118 | 70.0 to 130 | 0.409 | 20.0 |
| BC14036 | Sulfate | mg/L | 0.103 | 2.0 | 160 | 265 | 267 | 19.2 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.752 | 20.0 |
| BC14030 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.105 | 0.102 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.107 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14029 | Total Organic Carbon | mg/L | 0.199 | 1.00 | 10.0 | 10.1 | 9.67 | 22.7 | | 101 | 80.0 to 120 | 4.35 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 14:35

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - PZ-18R

Laboratory ID Number: BC14029

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BC14031 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 225 | 50.8 | 45.0 to 55.0 | | | 0.445 | 10.0 |
| BC14029 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.05 | 0.022 | 1.81 | 1.80 to 2.20 | 102 | 90.0 to 110 | 0.00 | 15.0 |
| BC14030 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 306 | 52.0 | 40.0 to 60.0 | | | 0.00 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-18R DUP

Location Code: WMWGORAP
Collected: 7/27/22 14:35
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14030

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:18 | | 1.015 | 0.0881 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 12:59 | | 10.15 | 63.8 | mg/L | 0.70035 | 4.06 | RA |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:18 | | 1.015 | 0.742 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:18 | | 1.015 | 0.0169 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:18 | | 1.015 | 18.7 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:18 | | 1 | 24.6 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:18 | | 1.015 | 11.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:18 | | 1.015 | 18.5 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 13:50 | | 1.015 | 0.0900 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 10:39 | | 10.15 | 87.1 | mg/L | 0.70035 | 4.06 | RA |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 13:50 | | 1.015 | 0.711 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 13:50 | | 1.015 | 0.0166 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 13:50 | | 1.015 | 18.8 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 13:50 | | 1 | 24.4 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 13:50 | | 1.015 | 11.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 13:50 | | 1.015 | 18.5 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | 0.00144 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | 0.0642 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | 0.000299 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | 0.0000972 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | 0.0600 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | 0.000624 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | 1.22 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-18R DUP

Location Code: WMWGORAP
Collected: 7/27/22 14:35
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14030

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 12:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | 0.00136 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | 0.0661 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | 0.000101 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | 0.0591 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | 0.000713 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | 1.21 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 17:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 14:22 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:48 | 7/28/22 16:48 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 214 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/2/22 12:20 | 8/3/22 13:03 | | 1 | 306 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 213 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 0.82 | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 05:33 | 8/4/22 05:33 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ-18R DUP

Location Code: WMWGORAP

Collected: 7/27/22 14:35

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14030

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:03 | 8/8/22 10:03 | | 1 | 4.88 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:44 | 8/8/22 13:44 | | 1 | 0.162 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:24 | 8/4/22 10:24 | | 2 | 49.1 | mg/L | 1.2 | 4 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/27/22 14:32 | 7/27/22 14:32 | | | 1024.62 | uS/cm | | | FA |
| pH | 7/27/22 14:32 | 7/27/22 14:32 | | | 7.18 | SU | | | FA |
| Temperature | 7/27/22 14:32 | 7/27/22 14:32 | | | 18.65 | C | | | FA |
| Turbidity | 7/27/22 14:32 | 7/27/22 14:32 | | | 0.92 | NTU | | | FA |
| Sulfide | 7/27/22 14:32 | 7/27/22 14:32 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 14:35

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - PZ-18R DUP

Laboratory ID Number: BC14030

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC14030 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.104 | 0.104 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14030 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.110 | 0.108 | 0.106 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 | |
| BC14030 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0876 | 0.0902 | 0.0889 | 0.0850 to 0.115 | 87.6 | 70.0 to 130 | 2.92 | 20.0 | |
| BC14030 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0910 | 0.0926 | 0.0945 | 0.0850 to 0.115 | 91.0 | 70.0 to 130 | 1.74 | 20.0 | |
| BC14030 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.102 | 0.0973 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 | |
| BC14030 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14030 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 0.158 | 0.166 | 0.0994 | 0.0850 to 0.115 | 91.9 | 70.0 to 130 | 4.94 | 20.0 | |
| BC14030 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 0.165 | 0.164 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.608 | 20.0 | |
| BC14030 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.104 | 0.103 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14030 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.101 | 0.102 | 0.103 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 | |
| BC14030 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.12 | 1.11 | 0.986 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.897 | 20.0 | |
| BC14030 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.13 | 1.14 | 1.01 | 0.850 to 1.15 | 104 | 70.0 to 130 | 0.881 | 20.0 | |
| BC14030 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0997 | 0.0948 | 0.0960 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 5.04 | 20.0 | |
| BC14030 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.102 | 0.0988 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.19 | 20.0 | |
| BC14030 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 92.8 | 81.2 | 4.85 | 4.25 to 5.75 | 114 | 70.0 to 130 | 13.3 | 20.0 | |
| BC14030 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 70.4 | 67.3 | 4.93 | 4.25 to 5.75 | 132 | 70.0 to 130 | 4.50 | 20.0 | |
| BC14039 | Chloride | mg/L | -0.00291 | 1.00 | 10.0 | 17.2 | 17.3 | 10.1 | 9.00 to 11.0 | 99.6 | 80.0 to 120 | 0.580 | 20.0 | |
| BC14030 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0978 | 0.0992 | 0.0970 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.42 | 20.0 | |
| BC14030 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.101 | 0.0999 | 0.0997 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.10 | 20.0 | |
| BC14030 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0959 | 0.0969 | 0.0981 | 0.0850 to 0.115 | 95.8 | 70.0 to 130 | 1.04 | 20.0 | |
| BC14030 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0990 | 0.0984 | 0.101 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.608 | 20.0 | |
| BC14039 | Fluoride | mg/L | -0.0297 | 0.125 | 2.50 | 2.79 | 2.82 | 2.68 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.07 | 20.0 | |
| BC14030 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 0.912 | 0.901 | 0.197 | 0.170 to 0.230 | 100 | 70.0 to 130 | 1.21 | 20.0 | |
| BC14030 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 0.935 | 0.938 | 0.202 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.320 | 20.0 | |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 14:35

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - PZ-18R DUP

Laboratory ID Number: BC14030

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14030 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.103 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14030 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.232 | 0.230 | 0.200 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.866 | 20.0 |
| BC14030 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.238 | 0.243 | 0.216 | 0.170 to 0.230 | 111 | 70.0 to 130 | 2.08 | 20.0 |
| BC14030 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 23.7 | 23.7 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 24.1 | 24.1 | 5.19 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.161 | 0.162 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.619 | 20.0 |
| BC14030 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.165 | 0.164 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.608 | 20.0 |
| BC14030 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00359 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 1.66 | 20.0 |
| BC14030 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0990 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.00 | 20.0 |
| BC14030 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.103 | 0.101 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.96 | 20.0 |
| BC14030 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.5 | 11.3 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 1.75 | 20.0 |
| BC14030 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.7 | 11.5 | 10.5 | 8.50 to 11.5 | 105 | 70.0 to 130 | 1.72 | 20.0 |
| BC14030 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.105 | 0.102 | 0.0974 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.107 | 0.106 | 0.101 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.939 | 20.0 |
| BC14030 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 12.4 | 12.3 | 0.998 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.810 | 20.0 |
| BC14030 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 12.4 | 12.4 | 1.02 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 23.7 | 23.7 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14030 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 24.4 | 24.5 | 5.29 | 4.25 to 5.75 | 118 | 70.0 to 130 | 0.409 | 20.0 |
| BC14036 | Sulfate | mg/L | 0.103 | 2.0 | 160 | 265 | 267 | 19.2 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.752 | 20.0 |
| BC14030 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.105 | 0.102 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.90 | 20.0 |
| BC14030 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.107 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14039 | Total Organic Carbon | mg/L | 0.261 | 1.00 | 10.0 | 10.6 | 10.9 | 24.0 | | 95.9 | 80.0 to 120 | 2.79 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 14:35

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - PZ-18R DUP

Laboratory ID Number: BC14030

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BC14031 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 225 | 50.8 | 45.0 to 55.0 | | | 0.445 | 10.0 |
| BC14039 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.01 | 0.021 | 1.87 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14030 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 306 | 52.0 | 40.0 to 60.0 | | | 0.00 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-32H

Location Code: WMWGORAP
Collected: 7/27/22 12:42
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14031

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:32 | | 1.015 | 0.0414 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 11:32 | | 1.015 | 2.86 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:32 | | 1.015 | 0.0709 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:32 | | 1.015 | 0.0456 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:32 | | 1.015 | 0.583 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:32 | | 1 | 11.3 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:32 | | 1.015 | 5.30 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 13:14 | | 10.15 | 150 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:04 | | 1.015 | 0.0441 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 14:04 | | 1.015 | 2.40 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 14:04 | | 1.015 | 0.0108 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:04 | | 1.015 | 0.0437 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:04 | | 1.015 | 0.509 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:04 | | 1 | 11.1 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:04 | | 1.015 | 5.20 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/12/22 10:54 | | 10.15 | 196 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | 0.0663 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | 0.000353 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | 0.0499 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | 0.000353 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | 0.0000694 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | 0.00753 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | 0.0865 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | 2.59 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-32H

Location Code: WMWGORAP

Collected: 7/27/22 12:42

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14031

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 13:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | 0.0218 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | 0.000346 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | 0.0438 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | 0.000302 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | 0.00607 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | 0.0838 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | 2.37 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 17:53 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:05 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:50 | 7/28/22 16:50 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 224 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/2/22 12:20 | 8/3/22 13:03 | | 1 | 357 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 220 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:18 | 8/1/22 15:33 | | 1 | 4.22 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 05:53 | 8/4/22 05:53 | | 1 | 1.08 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-32H

Location Code: WMWGORAP

Collected: 7/27/22 12:42

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14031

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:17 | 8/8/22 10:17 | | 3 | 33.2 | mg/L | 1.50 | 3 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:45 | 8/8/22 13:45 | | 1 | 0.161 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:25 | 8/4/22 10:25 | | 2 | 41.3 | mg/L | 1.2 | 4 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 7/27/22 12:39 | 7/27/22 12:39 | | | 634.69 | uS/cm | | | FA |
| pH | 7/27/22 12:39 | 7/27/22 12:39 | | | 7.88 | SU | | | FA |
| Temperature | 7/27/22 12:39 | 7/27/22 12:39 | | | 27.36 | C | | | FA |
| Turbidity | 7/27/22 12:39 | 7/27/22 12:39 | | | 4.12 | NTU | | | FA |
| Sulfide | 7/27/22 12:39 | 7/27/22 12:39 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 12:42

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-32H

Laboratory ID Number: BC14031

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC14040 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.107 | 0.104 | 0.103 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 | |
| BC14041 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.143 | 0.141 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0911 | 0.0907 | 0.0889 | 0.0850 to 0.115 | 91.1 | 70.0 to 130 | 0.440 | 20.0 | |
| BC14041 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0973 | 0.0951 | 0.0945 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.29 | 20.0 | |
| BC14040 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.0973 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14041 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14040 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 1.10 | 1.07 | 0.0994 | 0.0850 to 0.115 | 90.0 | 70.0 to 130 | 2.76 | 20.0 | |
| BC14041 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 1.10 | 1.08 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.83 | 20.0 | |
| BC14040 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.100 | 0.103 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.96 | 20.0 | |
| BC14041 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.109 | 0.110 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14040 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.09 | 1.10 | 0.986 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14041 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.12 | 1.11 | 1.01 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.897 | 20.0 | |
| BC14040 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0989 | 0.0994 | 0.0960 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.504 | 20.0 | |
| BC14041 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.0985 | 0.0999 | 0.0983 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 50.8 | 55.3 | 4.85 | 4.25 to 5.75 | 80.0 | 70.0 to 130 | 8.48 | 20.0 | |
| BC14041 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 46.9 | 47.4 | 4.93 | 4.25 to 5.75 | 110 | 70.0 to 130 | 1.06 | 20.0 | |
| BC14039 | Chloride | mg/L | -0.00291 | 1.00 | 10.0 | 17.2 | 17.3 | 10.1 | 9.00 to 11.0 | 99.6 | 80.0 to 120 | 0.580 | 20.0 | |
| BC14040 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0992 | 0.0967 | 0.0970 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.55 | 20.0 | |
| BC14041 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.100 | 0.0973 | 0.0997 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 2.74 | 20.0 | |
| BC14040 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0974 | 0.0968 | 0.0981 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.618 | 20.0 | |
| BC14041 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0987 | 0.0961 | 0.101 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 2.67 | 20.0 | |
| BC14039 | Fluoride | mg/L | -0.0297 | 0.125 | 2.50 | 2.79 | 2.82 | 2.68 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.07 | 20.0 | |
| BC14040 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 1.97 | 1.98 | 0.197 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.506 | 20.0 | |
| BC14041 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 2.20 | 2.18 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.913 | 20.0 | |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 12:42

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-32H

Laboratory ID Number: BC14031

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14040 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.243 | 0.243 | 0.200 | 0.170 to 0.230 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.251 | 0.252 | 0.216 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.398 | 20.0 |
| BC14040 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 19.1 | 19.3 | 5.01 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.04 | 20.0 |
| BC14041 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 19.4 | 19.5 | 5.19 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.514 | 20.0 |
| BC14040 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.205 | 0.202 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.47 | 20.0 |
| BC14041 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.209 | 0.201 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.90 | 20.0 |
| BC14041 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00361 | 0.00359 | 0.00369 | 0.00340 to 0.00460 | 90.2 | 70.0 to 130 | 0.556 | 20.0 |
| BC14040 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0996 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.40 | 20.0 |
| BC14041 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.102 | 0.0990 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.99 | 20.0 |
| BC14040 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.7 | 11.8 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BC14041 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.8 | 11.5 | 10.5 | 8.50 to 11.5 | 103 | 70.0 to 130 | 2.58 | 20.0 |
| BC14040 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.103 | 0.102 | 0.0974 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC14040 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 14.3 | 14.5 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.39 | 20.0 |
| BC14041 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 14.5 | 14.4 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.692 | 20.0 |
| BC14040 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 37.9 | 38.0 | 4.98 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.264 | 20.0 |
| BC14041 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 39.0 | 39.2 | 5.29 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.512 | 20.0 |
| BC14036 | Sulfate | mg/L | 0.103 | 2.0 | 160 | 265 | 267 | 19.2 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.752 | 20.0 |
| BC14040 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14041 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14039 | Total Organic Carbon | mg/L | 0.261 | 1.00 | 10.0 | 10.6 | 10.9 | 24.0 | | 95.9 | 80.0 to 120 | 2.79 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 12:42

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-32H

Laboratory ID Number: BC14031

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC14031 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 225 | 50.8 | 45.0 to 55.0 | | | 0.445 | 10.0 |
| BC14039 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.01 | 0.021 | 1.87 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14030 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 306 | 52.0 | 40.0 to 60.0 | | | 0.00 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6D

Location Code: WMWGORAP
Collected: 7/25/22 11:40
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14032

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:35 | | 1.015 | 1.39 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 13:17 | | 10.15 | 57.9 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:35 | | 1.015 | 0.0220 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:35 | | 1.015 | 0.348 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:35 | | 1.015 | 15.8 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:35 | | 1 | 14.3 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:35 | | 1.015 | 6.69 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:35 | | 1.015 | 27.4 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:07 | | 1.015 | 1.35 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 10:58 | | 10.15 | 65.1 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 14:07 | | 1.015 | 0.0170 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:07 | | 1.015 | 0.334 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:07 | | 1.015 | 15.6 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:07 | | 1 | 14.4 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:07 | | 1.015 | 6.72 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 14:07 | | 1.015 | 27.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | 0.114 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | 0.544 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | 0.000301 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | 0.000171 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | 0.197 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | 0.0110 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | 2.43 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6D

Location Code: WMWGORAP
Collected: 7/25/22 11:40
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14032

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 13:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | 0.125 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | 0.554 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | 0.186 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | 0.00950 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | 2.39 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 18:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:07 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:52 | 7/28/22 16:52 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: JS | | | | | | | |
| Alkalinity to pH 4.5 | 8/4/22 10:15 | 8/4/22 11:31 | | 1 | 183 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 294 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: JS | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/4/22 10:15 | 8/4/22 11:31 | | 1 | 181 | mg/L | | 1 | |
| Carbonate Alkalinity, (calc.) | 8/4/22 10:15 | 8/4/22 11:31 | | 1 | 2.24 | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 06:14 | 8/4/22 06:14 | | 1 | 1.17 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6D

Location Code: WMWGORAP

Collected: 7/25/22 11:40

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14032

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:05 | 8/8/22 10:05 | | 1 | 9.42 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:47 | 8/8/22 13:47 | | 1 | 0.100 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:27 | 8/4/22 10:27 | | 2 | 57.4 | mg/L | 1.2 | 4 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/25/22 11:37 | 7/25/22 11:37 | | | 456.88 | uS/cm | | | FA |
| pH | 7/25/22 11:37 | 7/25/22 11:37 | | | 6.95 | SU | | | FA |
| Temperature | 7/25/22 11:37 | 7/25/22 11:37 | | | 19.55 | C | | | FA |
| Turbidity | 7/25/22 11:37 | 7/25/22 11:37 | | | 0.35 | NTU | | | FA |
| Sulfide | 7/25/22 11:37 | 7/25/22 11:37 | | | 3 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 11:40

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: BC14032

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC14040 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.107 | 0.104 | 0.103 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 | |
| BC14041 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.143 | 0.141 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0911 | 0.0907 | 0.0889 | 0.0850 to 0.115 | 91.1 | 70.0 to 130 | 0.440 | 20.0 | |
| BC14041 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0973 | 0.0951 | 0.0945 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.29 | 20.0 | |
| BC14040 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.0973 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14041 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14040 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 1.10 | 1.07 | 0.0994 | 0.0850 to 0.115 | 90.0 | 70.0 to 130 | 2.76 | 20.0 | |
| BC14041 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 1.10 | 1.08 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.83 | 20.0 | |
| BC14040 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.100 | 0.103 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.96 | 20.0 | |
| BC14041 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.109 | 0.110 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14040 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.09 | 1.10 | 0.986 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14041 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.12 | 1.11 | 1.01 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.897 | 20.0 | |
| BC14040 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0989 | 0.0994 | 0.0960 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.504 | 20.0 | |
| BC14041 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.0985 | 0.0999 | 0.0983 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 50.8 | 55.3 | 4.85 | 4.25 to 5.75 | 80.0 | 70.0 to 130 | 8.48 | 20.0 | |
| BC14041 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 46.9 | 47.4 | 4.93 | 4.25 to 5.75 | 110 | 70.0 to 130 | 1.06 | 20.0 | |
| BC14039 | Chloride | mg/L | -0.00291 | 1.00 | 10.0 | 17.2 | 17.3 | 10.1 | 9.00 to 11.0 | 99.6 | 80.0 to 120 | 0.580 | 20.0 | |
| BC14040 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0992 | 0.0967 | 0.0970 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.55 | 20.0 | |
| BC14041 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.100 | 0.0973 | 0.0997 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 2.74 | 20.0 | |
| BC14040 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0974 | 0.0968 | 0.0981 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.618 | 20.0 | |
| BC14041 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0987 | 0.0961 | 0.101 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 2.67 | 20.0 | |
| BC14039 | Fluoride | mg/L | -0.0297 | 0.125 | 2.50 | 2.79 | 2.82 | 2.68 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.07 | 20.0 | |
| BC14040 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 1.97 | 1.98 | 0.197 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.506 | 20.0 | |
| BC14041 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 2.20 | 2.18 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.913 | 20.0 | |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 11:40

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: BC14032

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14040 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.243 | 0.243 | 0.200 | 0.170 to 0.230 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.251 | 0.252 | 0.216 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.398 | 20.0 |
| BC14040 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 19.1 | 19.3 | 5.01 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.04 | 20.0 |
| BC14041 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 19.4 | 19.5 | 5.19 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.514 | 20.0 |
| BC14040 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.205 | 0.202 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.47 | 20.0 |
| BC14041 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.209 | 0.201 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.90 | 20.0 |
| BC14041 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00361 | 0.00359 | 0.00369 | 0.00340 to 0.00460 | 90.2 | 70.0 to 130 | 0.556 | 20.0 |
| BC14040 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0996 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.40 | 20.0 |
| BC14041 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.102 | 0.0990 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.99 | 20.0 |
| BC14040 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.7 | 11.8 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BC14041 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.8 | 11.5 | 10.5 | 8.50 to 11.5 | 103 | 70.0 to 130 | 2.58 | 20.0 |
| BC14040 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.103 | 0.102 | 0.0974 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC14040 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 14.3 | 14.5 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.39 | 20.0 |
| BC14041 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 14.5 | 14.4 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.692 | 20.0 |
| BC14040 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 37.9 | 38.0 | 4.98 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.264 | 20.0 |
| BC14041 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 39.0 | 39.2 | 5.29 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.512 | 20.0 |
| BC14036 | Sulfate | mg/L | 0.103 | 2.0 | 160 | 265 | 267 | 19.2 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.752 | 20.0 |
| BC14040 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14041 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14039 | Total Organic Carbon | mg/L | 0.261 | 1.00 | 10.0 | 10.6 | 10.9 | 24.0 | | 95.9 | 80.0 to 120 | 2.79 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 11:40

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6D

Laboratory ID Number: BC14032

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC14034 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 710 | 50.7 | 45.0 to 55.0 | | | 5.35 | 10.0 |
| BC14039 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.01 | 0.021 | 1.87 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14033 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 879 | 50.0 | 40.0 to 60.0 | | | 0.342 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6V

Location Code: WMWGORAP
Collected: 7/25/22 17:55
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14033

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:38 | | 1.015 | 0.0978 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 11:38 | | 1.015 | 1.52 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:38 | | 1.015 | 0.208 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:38 | | 1.015 | 0.138 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:38 | | 1.015 | 0.537 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:38 | | 1 | 9.31 | mg/L | | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:38 | | 1.015 | 4.35 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 13:20 | | 101.5 | 391 | mg/L | 3.045 | 40.6 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:10 | | 1.015 | 0.0988 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 14:10 | | 1.015 | 1.36 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 14:10 | | 1.015 | 0.0213 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:10 | | 1.015 | 0.137 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:10 | | 1.015 | 0.473 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:10 | | 1 | 8.82 | mg/L | | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:10 | | 1.015 | 4.12 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/12/22 11:01 | | 101.5 | 390 | mg/L | 3.045 | 40.6 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | 0.187 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | 0.000844 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | 0.161 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | 0.000519 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | 0.000146 | mg/L | 0.000068 | 0.000203 | J | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | 0.000278 | mg/L | 0.000068 | 0.000203 | | |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | 0.00938 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | 0.00208 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | 1.41 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6V

Location Code: WMWGORAP
Collected: 7/25/22 17:55
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14033

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 13:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | 0.0206 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | 0.000668 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | 0.143 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | 0.000253 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | 0.00672 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | 0.00219 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | 1.32 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 18:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:10 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:54 | 7/28/22 16:54 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: JS | | | | | | | |
| Alkalinity to pH 4.5 | 8/4/22 10:15 | 8/4/22 11:31 | | 1 | 678 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 876 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: JS | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/4/22 10:15 | 8/4/22 11:31 | | 1 | 651 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/4/22 10:15 | 8/4/22 11:31 | | 1 | 26.7 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 06:35 | 8/4/22 06:35 | | 1 | 1.00 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6V

Location Code: WMWGORAP

Collected: 7/25/22 17:55

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14033

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:19 | 8/8/22 10:19 | | 4 | 51.8 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:48 | 8/8/22 13:48 | | 1 | 4.64 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:15 | 8/4/22 10:15 | | 1 | 6.09 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/25/22 17:51 | 7/25/22 17:51 | | | 1172.91 | uS/cm | | | FA |
| pH | 7/25/22 17:51 | 7/25/22 17:51 | | | 8.66 | SU | | | FA |
| Temperature | 7/25/22 17:51 | 7/25/22 17:51 | | | 20.69 | C | | | FA |
| Turbidity | 7/25/22 17:51 | 7/25/22 17:51 | | | 13.2 | NTU | | | FA |
| Sulfide | 7/25/22 17:51 | 7/25/22 17:51 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 17:55

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6V

Laboratory ID Number: BC14033

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC14040 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.107 | 0.104 | 0.103 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 | |
| BC14041 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.143 | 0.141 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0911 | 0.0907 | 0.0889 | 0.0850 to 0.115 | 91.1 | 70.0 to 130 | 0.440 | 20.0 | |
| BC14041 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0973 | 0.0951 | 0.0945 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.29 | 20.0 | |
| BC14040 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.0973 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14041 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14040 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 1.10 | 1.07 | 0.0994 | 0.0850 to 0.115 | 90.0 | 70.0 to 130 | 2.76 | 20.0 | |
| BC14041 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 1.10 | 1.08 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.83 | 20.0 | |
| BC14040 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.100 | 0.103 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.96 | 20.0 | |
| BC14041 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.109 | 0.110 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14040 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.09 | 1.10 | 0.986 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14041 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.12 | 1.11 | 1.01 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.897 | 20.0 | |
| BC14040 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0989 | 0.0994 | 0.0960 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.504 | 20.0 | |
| BC14041 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.0985 | 0.0999 | 0.0983 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 50.8 | 55.3 | 4.85 | 4.25 to 5.75 | 80.0 | 70.0 to 130 | 8.48 | 20.0 | |
| BC14041 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 46.9 | 47.4 | 4.93 | 4.25 to 5.75 | 110 | 70.0 to 130 | 1.06 | 20.0 | |
| BC14039 | Chloride | mg/L | -0.00291 | 1.00 | 10.0 | 17.2 | 17.3 | 10.1 | 9.00 to 11.0 | 99.6 | 80.0 to 120 | 0.580 | 20.0 | |
| BC14040 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0992 | 0.0967 | 0.0970 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.55 | 20.0 | |
| BC14041 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.100 | 0.0973 | 0.0997 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 2.74 | 20.0 | |
| BC14040 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0974 | 0.0968 | 0.0981 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.618 | 20.0 | |
| BC14041 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0987 | 0.0961 | 0.101 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 2.67 | 20.0 | |
| BC14039 | Fluoride | mg/L | -0.0297 | 0.125 | 2.50 | 2.79 | 2.82 | 2.68 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.07 | 20.0 | |
| BC14040 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 1.97 | 1.98 | 0.197 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.506 | 20.0 | |
| BC14041 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 2.20 | 2.18 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.913 | 20.0 | |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 17:55

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6V

Laboratory ID Number: BC14033

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14040 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.243 | 0.243 | 0.200 | 0.170 to 0.230 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.251 | 0.252 | 0.216 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.398 | 20.0 |
| BC14040 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 19.1 | 19.3 | 5.01 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.04 | 20.0 |
| BC14041 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 19.4 | 19.5 | 5.19 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.514 | 20.0 |
| BC14040 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.205 | 0.202 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.47 | 20.0 |
| BC14041 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.209 | 0.201 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.90 | 20.0 |
| BC14041 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00361 | 0.00359 | 0.00369 | 0.00340 to 0.00460 | 90.2 | 70.0 to 130 | 0.556 | 20.0 |
| BC14040 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0996 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.40 | 20.0 |
| BC14041 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.102 | 0.0990 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.99 | 20.0 |
| BC14040 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.7 | 11.8 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BC14041 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.8 | 11.5 | 10.5 | 8.50 to 11.5 | 103 | 70.0 to 130 | 2.58 | 20.0 |
| BC14040 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.103 | 0.102 | 0.0974 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC14040 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 14.3 | 14.5 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.39 | 20.0 |
| BC14041 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 14.5 | 14.4 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.692 | 20.0 |
| BC14040 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 37.9 | 38.0 | 4.98 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.264 | 20.0 |
| BC14041 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 39.0 | 39.2 | 5.29 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.512 | 20.0 |
| BC14036 | Sulfate | mg/L | 0.103 | 2.0 | 160 | 265 | 267 | 19.2 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.752 | 20.0 |
| BC14040 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14041 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14039 | Total Organic Carbon | mg/L | 0.261 | 1.00 | 10.0 | 10.6 | 10.9 | 24.0 | | 95.9 | 80.0 to 120 | 2.79 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 17:55

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6V

Laboratory ID Number: BC14033

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BC14034 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 710 | 50.7 | 45.0 to 55.0 | | | 5.35 | 10.0 |
| BC14039 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.01 | 0.021 | 1.87 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14033 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 879 | 50.0 | 40.0 to 60.0 | | | 0.342 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6V DIS

Location Code: WMWGORAP
Collected: 7/25/22 17:55
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14034

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|--------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:13 | | 1.015 | 0.0982 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 14:13 | | 1.015 | 1.35 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 14:13 | | 1.015 | 0.0148 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:13 | | 1.015 | 0.137 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:13 | | 1.015 | 0.473 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:13 | | 1 | 8.75 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:13 | | 1.015 | 4.09 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/12/22 11:04 | | 101.5 | 381 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | 0.0184 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | 0.000671 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | 0.150 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | 0.000214 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | 0.00688 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | 0.00215 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | 1.28 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 18:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Dissolved by CVAA | 8/10/22 10:40 | 8/10/22 14:37 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:56 | 7/28/22 16:56 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: JS | | | | | | | |
| Alkalinity to pH 4.5 | 8/4/22 10:15 | 8/4/22 11:31 | | 1 | 673 | mg/L | | 0.1 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6V DIS

Location Code: WMWGORAP
Collected: 7/25/22 17:55
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14034

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 839 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: JS | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/4/22 10:15 | 8/4/22 11:31 | | 1 | 642 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/4/22 10:15 | 8/4/22 11:31 | | 1 | 30.9 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 06:58 | 8/4/22 06:58 | | 1 | 9.04 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:20 | 8/8/22 10:20 | | 4 | 50.7 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:49 | 8/8/22 13:49 | | 1 | 4.56 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:16 | 8/4/22 10:16 | | 1 | 2.62 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/25/22 17:51 | 7/25/22 17:51 | | | 1172.91 | uS/cm | | | FA |
| pH | 7/25/22 17:51 | 7/25/22 17:51 | | | 8.66 | SU | | | FA |
| Temperature | 7/25/22 17:51 | 7/25/22 17:51 | | | 20.69 | C | | | FA |
| Turbidity | 7/25/22 17:51 | 7/25/22 17:51 | | | 13.2 | NTU | | | FA |
| Sulfide | 7/25/22 17:51 | 7/25/22 17:51 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 17:55

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6V DIS

Laboratory ID Number: BC14034

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|-----------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC14040 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.107 | 0.104 | 0.103 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC14040 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0911 | 0.0907 | 0.0889 | 0.0850 to 0.115 | 91.1 | 70.0 to 130 | 0.440 | 20.0 |
| BC14040 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.0973 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14040 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 1.10 | 1.07 | 0.0994 | 0.0850 to 0.115 | 90.0 | 70.0 to 130 | 2.76 | 20.0 |
| BC14040 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.100 | 0.103 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.96 | 20.0 |
| BC14040 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.09 | 1.10 | 0.986 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.913 | 20.0 |
| BC14040 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0989 | 0.0994 | 0.0960 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.504 | 20.0 |
| BC14040 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 50.8 | 55.3 | 4.85 | 4.25 to 5.75 | 80.0 | 70.0 to 130 | 8.48 | 20.0 |
| BC14039 | Chloride | mg/L | -0.00291 | 1.00 | 10.0 | 17.2 | 17.3 | 10.1 | 9.00 to 11.0 | 99.6 | 80.0 to 120 | 0.580 | 20.0 |
| BC14040 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0992 | 0.0967 | 0.0970 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.55 | 20.0 |
| BC14040 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0974 | 0.0968 | 0.0981 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.618 | 20.0 |
| BC14039 | Fluoride | mg/L | -0.0297 | 0.125 | 2.50 | 2.79 | 2.82 | 2.68 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.07 | 20.0 |
| BC14040 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 1.97 | 1.98 | 0.197 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.506 | 20.0 |
| BC14040 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.243 | 0.243 | 0.200 | 0.170 to 0.230 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14040 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 19.1 | 19.3 | 5.01 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.04 | 20.0 |
| BC14040 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.205 | 0.202 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.47 | 20.0 |
| BC14034 | Mercury, Dissolved by | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00365 | 0.00364 | 0.00372 | 0.00340 to 0.00460 | 91.2 | 70.0 to 130 | 0.274 | 20.0 |
| BC14040 | Molybdenum, Dissolved | mg/L | 0.0000008 | 0.0002 | 0.100 | 0.101 | 0.0996 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.40 | 20.0 |
| BC14040 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.7 | 11.8 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BC14040 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.103 | 0.102 | 0.0974 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 14.3 | 14.5 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.39 | 20.0 |
| BC14040 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 37.9 | 38.0 | 4.98 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.264 | 20.0 |
| BC14036 | Sulfate | mg/L | 0.103 | 2.0 | 160 | 265 | 267 | 19.2 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.752 | 20.0 |

Comments: The sample submitted was field filtered, all analyses are qualified as such. Filtered LCS and MB were not submitted or analyzed.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 7/25/22 17:55
Customer ID:
Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6V DIS

Laboratory ID Number: BC14034

| Sample | Analysis | Units | MB | MB | | | | Standard | Standard Limit | Rec | | Prec Limit | |
|---------|----------------------|-------|-----------|----------|-------|-------|-------|----------|-----------------|------|-------------|------------|------|
| | | | | Limit | Spike | MS | MSD | | | Rec | Limit | | |
| BC14040 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14039 | Total Organic Carbon | mg/L | 0.261 | 1.00 | 10.0 | 10.6 | 10.9 | 24.0 | | 95.9 | 80.0 to 120 | 2.79 | 20.0 |

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 17:55

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6V DIS

Laboratory ID Number: BC14034

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|------|---------------|
| BC14034 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 710 | 50.7 | 45.0 to 55.0 | | | 5.35 | 10.0 |
| BC14039 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.01 | 0.021 | 1.87 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14042 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 312 | 50.0 | 40.0 to 60.0 | | | 2.27 | 10.0 |

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S

Location Code: WMWGORAP
Collected: 7/26/22 10:00
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14035

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:41 | | 1.015 | 1.11 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 13:23 | | 10.15 | 51.8 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 13:23 | | 10.15 | 8.09 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:41 | | 1.015 | 0.0665 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:41 | | 1.015 | 21.2 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:41 | | 1 | 11.6 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:41 | | 1.015 | 5.43 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:41 | | 1.015 | 11.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:16 | | 1.015 | 1.10 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 11:07 | | 10.15 | 58.9 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/12/22 11:07 | | 10.15 | 7.67 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:16 | | 1.015 | 0.0692 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:16 | | 1.015 | 20.9 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:16 | | 1 | 11.4 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:16 | | 1.015 | 5.31 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 14:16 | | 1.015 | 11.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | 0.000656 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | 0.0331 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | 0.00935 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | 0.0978 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | 0.000359 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | 0.000768 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | 0.000098 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 15:37 | | 5.075 | 3.17 | mg/L | 0.000761 | 0.001015 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | 0.0377 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | 4.03 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S

Location Code: WMWGORAP
Collected: 7/26/22 10:00
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14035

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | 0.000860 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 13:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | 0.000641 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | 0.00676 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | 0.0959 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | 0.000278 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | 0.000712 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 20:12 | | 5.075 | 3.07 | mg/L | 0.000761 | 0.001015 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | 0.0409 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | 4.17 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | 0.000797 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 18:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:12 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:57 | 7/28/22 16:57 | | 1 | 0.289 | mg/L as N | 0.20 | 0.3 | J |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 113 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 311 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 112 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 0.76 | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 07:23 | 8/4/22 07:23 | | 1 | 1.25 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S

Location Code: WMWGORAP

Collected: 7/26/22 10:00

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14035

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:09 | 8/8/22 10:09 | | 1 | 22.9 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:50 | 8/8/22 13:50 | | 1 | 0.164 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:28 | 8/4/22 10:28 | | 5 | 106 | mg/L | 3.0 | 10 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/26/22 09:56 | 7/26/22 09:56 | | | 481.64 | uS/cm | | | FA |
| pH | 7/26/22 09:56 | 7/26/22 09:56 | | | 6.97 | SU | | | FA |
| Temperature | 7/26/22 09:56 | 7/26/22 09:56 | | | 19.50 | C | | | FA |
| Turbidity | 7/26/22 09:56 | 7/26/22 09:56 | | | 4.77 | NTU | | | FA |
| Sulfide | 7/26/22 09:56 | 7/26/22 09:56 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 10:00

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: BC14035

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC14040 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.107 | 0.104 | 0.103 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC14041 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.143 | 0.141 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.41 | 20.0 |
| BC14040 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0911 | 0.0907 | 0.0889 | 0.0850 to 0.115 | 91.1 | 70.0 to 130 | 0.440 | 20.0 |
| BC14041 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0973 | 0.0951 | 0.0945 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.29 | 20.0 |
| BC14040 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.0973 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14040 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 1.10 | 1.07 | 0.0994 | 0.0850 to 0.115 | 90.0 | 70.0 to 130 | 2.76 | 20.0 |
| BC14041 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 1.10 | 1.08 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.83 | 20.0 |
| BC14040 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.100 | 0.103 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.96 | 20.0 |
| BC14041 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.109 | 0.110 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.913 | 20.0 |
| BC14040 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.09 | 1.10 | 0.986 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.913 | 20.0 |
| BC14041 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.12 | 1.11 | 1.01 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.897 | 20.0 |
| BC14040 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0989 | 0.0994 | 0.0960 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.504 | 20.0 |
| BC14041 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.0985 | 0.0999 | 0.0983 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 1.41 | 20.0 |
| BC14040 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 50.8 | 55.3 | 4.85 | 4.25 to 5.75 | 80.0 | 70.0 to 130 | 8.48 | 20.0 |
| BC14041 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 46.9 | 47.4 | 4.93 | 4.25 to 5.75 | 110 | 70.0 to 130 | 1.06 | 20.0 |
| BC14039 | Chloride | mg/L | -0.00291 | 1.00 | 10.0 | 17.2 | 17.3 | 10.1 | 9.00 to 11.0 | 99.6 | 80.0 to 120 | 0.580 | 20.0 |
| BC14040 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0992 | 0.0967 | 0.0970 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.55 | 20.0 |
| BC14041 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.100 | 0.0973 | 0.0997 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 2.74 | 20.0 |
| BC14040 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0974 | 0.0968 | 0.0981 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.618 | 20.0 |
| BC14041 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0987 | 0.0961 | 0.101 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 2.67 | 20.0 |
| BC14039 | Fluoride | mg/L | -0.0297 | 0.125 | 2.50 | 2.79 | 2.82 | 2.68 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.07 | 20.0 |
| BC14040 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 1.97 | 1.98 | 0.197 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.506 | 20.0 |
| BC14041 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 2.20 | 2.18 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.913 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 10:00

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: BC14035

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14040 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.243 | 0.243 | 0.200 | 0.170 to 0.230 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.251 | 0.252 | 0.216 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.398 | 20.0 |
| BC14040 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 19.1 | 19.3 | 5.01 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.04 | 20.0 |
| BC14041 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 19.4 | 19.5 | 5.19 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.514 | 20.0 |
| BC14040 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.205 | 0.202 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.47 | 20.0 |
| BC14041 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.209 | 0.201 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.90 | 20.0 |
| BC14041 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00361 | 0.00359 | 0.00369 | 0.00340 to 0.00460 | 90.2 | 70.0 to 130 | 0.556 | 20.0 |
| BC14040 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0996 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.40 | 20.0 |
| BC14041 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.102 | 0.0990 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.99 | 20.0 |
| BC14040 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.7 | 11.8 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BC14041 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.8 | 11.5 | 10.5 | 8.50 to 11.5 | 103 | 70.0 to 130 | 2.58 | 20.0 |
| BC14040 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.103 | 0.102 | 0.0974 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC14040 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 14.3 | 14.5 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.39 | 20.0 |
| BC14041 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 14.5 | 14.4 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.692 | 20.0 |
| BC14040 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 37.9 | 38.0 | 4.98 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.264 | 20.0 |
| BC14041 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 39.0 | 39.2 | 5.29 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.512 | 20.0 |
| BC14036 | Sulfate | mg/L | 0.103 | 2.0 | 160 | 265 | 267 | 19.2 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.752 | 20.0 |
| BC14040 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14041 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14039 | Total Organic Carbon | mg/L | 0.261 | 1.00 | 10.0 | 10.6 | 10.9 | 24.0 | | 95.9 | 80.0 to 120 | 2.79 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 10:00

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6S

Laboratory ID Number: BC14035

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14042 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 130 | 50.5 | 45.0 to 55.0 | | | 1.55 | 10.0 |
| BC14039 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.01 | 0.021 | 1.87 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14042 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 312 | 50.0 | 40.0 to 60.0 | | | 2.27 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S DUP

Location Code: WMWGORAP
Collected: 7/26/22 10:00
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14036

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:44 | | 1.015 | 1.12 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 13:26 | | 10.15 | 52.2 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 13:26 | | 10.15 | 7.99 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:44 | | 1.015 | 0.0679 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:44 | | 1.015 | 21.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:44 | | 1 | 11.6 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:44 | | 1.015 | 5.44 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:44 | | 1.015 | 12.0 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:19 | | 1.015 | 1.11 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 11:10 | | 10.15 | 65.3 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/12/22 11:10 | | 10.15 | 8.57 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:19 | | 1.015 | 0.0693 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:19 | | 1.015 | 21.0 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:19 | | 1 | 11.4 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:19 | | 1.015 | 5.33 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 14:19 | | 1.015 | 11.8 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | 0.000698 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | 0.0310 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | 0.00911 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | 0.101 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | 0.000366 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | 0.000733 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | 0.0000809 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 15:44 | | 5.075 | 3.20 | mg/L | 0.000761 | 0.001015 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | 0.0396 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | 4.11 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S DUP

Location Code: WMWGORAP

Collected: 7/26/22 10:00

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14036

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | 0.000832 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 13:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | 0.000606 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | 0.00683 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | 0.0965 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | 0.000244 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | 0.000698 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 20:19 | | 5.075 | 3.08 | mg/L | 0.000761 | 0.001015 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | 0.0402 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | 4.08 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | 0.000669 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 18:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:14 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:59 | 7/28/22 16:59 | | 1 | 0.284 | mg/L as N | 0.20 | 0.3 | J |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 114 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 313 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 113 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 1.11 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 07:44 | 8/4/22 07:44 | | 1 | 1.36 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6S DUP

Location Code: WMWGORAP

Collected: 7/26/22 10:00

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14036

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:10 | 8/8/22 10:10 | | 1 | 22.8 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:51 | 8/8/22 13:51 | | 1 | 0.172 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:29 | 8/4/22 10:29 | | 8 | 109 | mg/L | 4.8 | 16 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/26/22 09:56 | 7/26/22 09:56 | | | 481.64 | uS/cm | | | FA |
| pH | 7/26/22 09:56 | 7/26/22 09:56 | | | 6.97 | SU | | | FA |
| Temperature | 7/26/22 09:56 | 7/26/22 09:56 | | | 19.50 | C | | | FA |
| Turbidity | 7/26/22 09:56 | 7/26/22 09:56 | | | 4.77 | NTU | | | FA |
| Sulfide | 7/26/22 09:56 | 7/26/22 09:56 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 10:00

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6S DUP

Laboratory ID Number: BC14036

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC14040 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.107 | 0.104 | 0.103 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 | |
| BC14041 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.143 | 0.141 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0911 | 0.0907 | 0.0889 | 0.0850 to 0.115 | 91.1 | 70.0 to 130 | 0.440 | 20.0 | |
| BC14041 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0973 | 0.0951 | 0.0945 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.29 | 20.0 | |
| BC14040 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.0973 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14041 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14040 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 1.10 | 1.07 | 0.0994 | 0.0850 to 0.115 | 90.0 | 70.0 to 130 | 2.76 | 20.0 | |
| BC14041 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 1.10 | 1.08 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.83 | 20.0 | |
| BC14040 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.100 | 0.103 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.96 | 20.0 | |
| BC14041 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.109 | 0.110 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14040 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.09 | 1.10 | 0.986 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14041 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.12 | 1.11 | 1.01 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.897 | 20.0 | |
| BC14040 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0989 | 0.0994 | 0.0960 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.504 | 20.0 | |
| BC14041 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.0985 | 0.0999 | 0.0983 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 50.8 | 55.3 | 4.85 | 4.25 to 5.75 | 80.0 | 70.0 to 130 | 8.48 | 20.0 | |
| BC14041 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 46.9 | 47.4 | 4.93 | 4.25 to 5.75 | 110 | 70.0 to 130 | 1.06 | 20.0 | |
| BC14039 | Chloride | mg/L | -0.00291 | 1.00 | 10.0 | 17.2 | 17.3 | 10.1 | 9.00 to 11.0 | 99.6 | 80.0 to 120 | 0.580 | 20.0 | |
| BC14040 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0992 | 0.0967 | 0.0970 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.55 | 20.0 | |
| BC14041 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.100 | 0.0973 | 0.0997 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 2.74 | 20.0 | |
| BC14040 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0974 | 0.0968 | 0.0981 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.618 | 20.0 | |
| BC14041 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0987 | 0.0961 | 0.101 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 2.67 | 20.0 | |
| BC14039 | Fluoride | mg/L | -0.0297 | 0.125 | 2.50 | 2.79 | 2.82 | 2.68 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.07 | 20.0 | |
| BC14040 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 1.97 | 1.98 | 0.197 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.506 | 20.0 | |
| BC14041 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 2.20 | 2.18 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.913 | 20.0 | |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 10:00

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6S DUP

Laboratory ID Number: BC14036

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14040 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.243 | 0.243 | 0.200 | 0.170 to 0.230 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.251 | 0.252 | 0.216 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.398 | 20.0 |
| BC14040 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 19.1 | 19.3 | 5.01 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.04 | 20.0 |
| BC14041 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 19.4 | 19.5 | 5.19 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.514 | 20.0 |
| BC14040 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.205 | 0.202 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.47 | 20.0 |
| BC14041 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.209 | 0.201 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.90 | 20.0 |
| BC14041 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00361 | 0.00359 | 0.00369 | 0.00340 to 0.00460 | 90.2 | 70.0 to 130 | 0.556 | 20.0 |
| BC14040 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0996 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.40 | 20.0 |
| BC14041 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.102 | 0.0990 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.99 | 20.0 |
| BC14040 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.7 | 11.8 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BC14041 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.8 | 11.5 | 10.5 | 8.50 to 11.5 | 103 | 70.0 to 130 | 2.58 | 20.0 |
| BC14040 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.103 | 0.102 | 0.0974 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC14040 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 14.3 | 14.5 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.39 | 20.0 |
| BC14041 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 14.5 | 14.4 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.692 | 20.0 |
| BC14040 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 37.9 | 38.0 | 4.98 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.264 | 20.0 |
| BC14041 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 39.0 | 39.2 | 5.29 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.512 | 20.0 |
| BC14036 | Sulfate | mg/L | 0.103 | 2.0 | 160 | 265 | 267 | 19.2 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.752 | 20.0 |
| BC14040 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14041 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14039 | Total Organic Carbon | mg/L | 0.261 | 1.00 | 10.0 | 10.6 | 10.9 | 24.0 | | 95.9 | 80.0 to 120 | 2.79 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 10:00

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-6S DUP

Laboratory ID Number: BC14036

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC14042 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 130 | 50.5 | 45.0 to 55.0 | | | 1.55 | 10.0 |
| BC14039 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.01 | 0.021 | 1.87 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14042 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 312 | 50.0 | 40.0 to 60.0 | | | 2.27 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23H

Location Code: WMWGORAP
Collected: 7/26/22 11:30
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14037

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:47 | | 1.015 | 0.0338 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 13:28 | | 101.5 | 72.4 | mg/L | 7.0035 | 40.6 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 13:28 | | 101.5 | 50.2 | mg/L | 0.8120 | 4.06 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:47 | | 1.015 | 0.0320 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:47 | | 1.015 | 35.1 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:47 | | 1 | 27.6 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:47 | | 1.015 | 12.9 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:47 | | 1.015 | 22.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:22 | | 1.015 | 0.0377 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 11:13 | | 101.5 | 75.9 | mg/L | 7.0035 | 40.6 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/12/22 11:13 | | 101.5 | 49.2 | mg/L | 0.8120 | 4.06 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:22 | | 1.015 | 0.0318 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:22 | | 1.015 | 35.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:22 | | 1 | 27.2 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:22 | | 1.015 | 12.7 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 14:22 | | 1.015 | 23.0 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | 0.0616 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | 0.0154 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | 0.000302 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | 0.000576 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 15:51 | | 5.075 | 1.51 | mg/L | 0.000761 | 0.001015 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | 0.000783 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | 2.49 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23H

Location Code: WMWGORAP
Collected: 7/26/22 11:30
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14037

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 13:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | 0.0578 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | 0.0158 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | 0.000252 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | 0.000537 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 20:26 | | 5.075 | 1.48 | mg/L | 0.000761 | 0.001015 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | 0.000843 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | 2.51 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 18:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:17 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 17:01 | 7/28/22 17:01 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 76.8 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 626 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 76.8 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | Not Detected | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 08:08 | 8/4/22 08:08 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23H

Location Code: WMWGORAP

Collected: 7/26/22 11:30

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14037

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:11 | 8/8/22 10:11 | | 1 | 12.9 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:53 | 8/8/22 13:53 | | 1 | 0.0867 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:54 | 8/4/22 10:54 | | 25 | 322 | mg/L | 15.0 | 50 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/26/22 11:27 | 7/26/22 11:27 | | | 791.99 | uS/cm | | | FA |
| pH | 7/26/22 11:27 | 7/26/22 11:27 | | | 5.73 | SU | | | FA |
| Temperature | 7/26/22 11:27 | 7/26/22 11:27 | | | 18.66 | C | | | FA |
| Turbidity | 7/26/22 11:27 | 7/26/22 11:27 | | | 1.25 | NTU | | | FA |
| Sulfide | 7/26/22 11:27 | 7/26/22 11:27 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 11:30

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: BC14037

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC14040 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.107 | 0.104 | 0.103 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 | |
| BC14041 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.143 | 0.141 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0911 | 0.0907 | 0.0889 | 0.0850 to 0.115 | 91.1 | 70.0 to 130 | 0.440 | 20.0 | |
| BC14041 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0973 | 0.0951 | 0.0945 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.29 | 20.0 | |
| BC14040 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.0973 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14041 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14040 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 1.10 | 1.07 | 0.0994 | 0.0850 to 0.115 | 90.0 | 70.0 to 130 | 2.76 | 20.0 | |
| BC14041 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 1.10 | 1.08 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.83 | 20.0 | |
| BC14040 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.100 | 0.103 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.96 | 20.0 | |
| BC14041 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.109 | 0.110 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14040 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.09 | 1.10 | 0.986 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14041 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.12 | 1.11 | 1.01 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.897 | 20.0 | |
| BC14040 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0989 | 0.0994 | 0.0960 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.504 | 20.0 | |
| BC14041 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.0985 | 0.0999 | 0.0983 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 50.8 | 55.3 | 4.85 | 4.25 to 5.75 | 80.0 | 70.0 to 130 | 8.48 | 20.0 | |
| BC14041 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 46.9 | 47.4 | 4.93 | 4.25 to 5.75 | 110 | 70.0 to 130 | 1.06 | 20.0 | |
| BC14039 | Chloride | mg/L | -0.00291 | 1.00 | 10.0 | 17.2 | 17.3 | 10.1 | 9.00 to 11.0 | 99.6 | 80.0 to 120 | 0.580 | 20.0 | |
| BC14040 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0992 | 0.0967 | 0.0970 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.55 | 20.0 | |
| BC14041 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.100 | 0.0973 | 0.0997 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 2.74 | 20.0 | |
| BC14040 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0974 | 0.0968 | 0.0981 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.618 | 20.0 | |
| BC14041 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0987 | 0.0961 | 0.101 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 2.67 | 20.0 | |
| BC14039 | Fluoride | mg/L | -0.0297 | 0.125 | 2.50 | 2.79 | 2.82 | 2.68 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.07 | 20.0 | |
| BC14040 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 1.97 | 1.98 | 0.197 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.506 | 20.0 | |
| BC14041 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 2.20 | 2.18 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.913 | 20.0 | |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 11:30

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: BC14037

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14040 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.243 | 0.243 | 0.200 | 0.170 to 0.230 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.251 | 0.252 | 0.216 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.398 | 20.0 |
| BC14040 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 19.1 | 19.3 | 5.01 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.04 | 20.0 |
| BC14041 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 19.4 | 19.5 | 5.19 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.514 | 20.0 |
| BC14040 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.205 | 0.202 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.47 | 20.0 |
| BC14041 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.209 | 0.201 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.90 | 20.0 |
| BC14041 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00361 | 0.00359 | 0.00369 | 0.00340 to 0.00460 | 90.2 | 70.0 to 130 | 0.556 | 20.0 |
| BC14040 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0996 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.40 | 20.0 |
| BC14041 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.102 | 0.0990 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.99 | 20.0 |
| BC14040 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.7 | 11.8 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BC14041 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.8 | 11.5 | 10.5 | 8.50 to 11.5 | 103 | 70.0 to 130 | 2.58 | 20.0 |
| BC14040 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.103 | 0.102 | 0.0974 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC14040 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 14.3 | 14.5 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.39 | 20.0 |
| BC14041 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 14.5 | 14.4 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.692 | 20.0 |
| BC14040 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 37.9 | 38.0 | 4.98 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.264 | 20.0 |
| BC14041 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 39.0 | 39.2 | 5.29 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.512 | 20.0 |
| BC14044 | Sulfate | mg/L | 0.0313 | 2.0 | 640 | 1050 | 1020 | 19.4 | 18.0 to 22.0 | 107 | 80.0 to 120 | 2.90 | 20.0 |
| BC14040 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14041 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14039 | Total Organic Carbon | mg/L | 0.261 | 1.00 | 10.0 | 10.6 | 10.9 | 24.0 | | 95.9 | 80.0 to 120 | 2.79 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 11:30

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-23H

Laboratory ID Number: BC14037

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|------|---------------|
| BC14042 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 130 | 50.5 | 45.0 to 55.0 | | | 1.55 | 10.0 |
| BC14039 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.01 | 0.021 | 1.87 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14042 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 312 | 50.0 | 40.0 to 60.0 | | | 2.27 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23V

Location Code: WMWGORAP
Collected: 7/26/22 12:44
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14038

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:50 | | 1.015 | 0.0772 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 13:31 | | 10.15 | 138 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:50 | | 1.015 | 0.343 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:50 | | 1.015 | 0.0419 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:50 | | 1.015 | 38.4 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:50 | | 1 | 30.4 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:50 | | 1.015 | 14.2 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 13:31 | | 10.15 | 45.9 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:25 | | 1.015 | 0.0883 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 11:17 | | 10.15 | 173 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 14:25 | | 1.015 | 0.283 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:25 | | 1.015 | 0.0428 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:25 | | 1.015 | 38.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:25 | | 1 | 29.5 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:25 | | 1.015 | 13.8 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/12/22 11:17 | | 10.15 | 56.3 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | 0.0247 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | 0.0695 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | 0.000389 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | 0.141 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | 2.37 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23V

Location Code: WMWGORAP
Collected: 7/26/22 12:44
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14038

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 13:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | 0.0659 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | 0.000233 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | 0.137 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | 0.000114 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | 2.32 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 18:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:19 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 17:03 | 7/28/22 17:03 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 272 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 740 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 269 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 3.33 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 08:26 | 8/4/22 08:26 | | 1 | 1.39 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-23V

Location Code: WMWGORAP
Collected: 7/26/22 12:44
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14038

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:13 | 8/8/22 10:13 | | 1 | 3.49 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:54 | 8/8/22 13:54 | | 1 | 0.0773 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:56 | 8/4/22 10:56 | | 25 | 286 | mg/L | 15.0 | 50 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/26/22 12:40 | 7/26/22 12:40 | | | 958.21 | uS/cm | | | FA |
| pH | 7/26/22 12:40 | 7/26/22 12:40 | | | 7.10 | SU | | | FA |
| Temperature | 7/26/22 12:40 | 7/26/22 12:40 | | | 18.98 | C | | | FA |
| Turbidity | 7/26/22 12:40 | 7/26/22 12:40 | | | 1.23 | NTU | | | FA |
| Sulfide | 7/26/22 12:40 | 7/26/22 12:40 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 12:44

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-23V

Laboratory ID Number: BC14038

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC14040 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.107 | 0.104 | 0.103 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC14041 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.143 | 0.141 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.41 | 20.0 |
| BC14040 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0911 | 0.0907 | 0.0889 | 0.0850 to 0.115 | 91.1 | 70.0 to 130 | 0.440 | 20.0 |
| BC14041 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0973 | 0.0951 | 0.0945 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.29 | 20.0 |
| BC14040 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.0973 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14040 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 1.10 | 1.07 | 0.0994 | 0.0850 to 0.115 | 90.0 | 70.0 to 130 | 2.76 | 20.0 |
| BC14041 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 1.10 | 1.08 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.83 | 20.0 |
| BC14040 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.100 | 0.103 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.96 | 20.0 |
| BC14041 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.109 | 0.110 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.913 | 20.0 |
| BC14040 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.09 | 1.10 | 0.986 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.913 | 20.0 |
| BC14041 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.12 | 1.11 | 1.01 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.897 | 20.0 |
| BC14040 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0989 | 0.0994 | 0.0960 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.504 | 20.0 |
| BC14041 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.0985 | 0.0999 | 0.0983 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 1.41 | 20.0 |
| BC14040 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 50.8 | 55.3 | 4.85 | 4.25 to 5.75 | 80.0 | 70.0 to 130 | 8.48 | 20.0 |
| BC14041 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 46.9 | 47.4 | 4.93 | 4.25 to 5.75 | 110 | 70.0 to 130 | 1.06 | 20.0 |
| BC14039 | Chloride | mg/L | -0.00291 | 1.00 | 10.0 | 17.2 | 17.3 | 10.1 | 9.00 to 11.0 | 99.6 | 80.0 to 120 | 0.580 | 20.0 |
| BC14040 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0992 | 0.0967 | 0.0970 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.55 | 20.0 |
| BC14041 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.100 | 0.0973 | 0.0997 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 2.74 | 20.0 |
| BC14040 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0974 | 0.0968 | 0.0981 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.618 | 20.0 |
| BC14041 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0987 | 0.0961 | 0.101 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 2.67 | 20.0 |
| BC14039 | Fluoride | mg/L | -0.0297 | 0.125 | 2.50 | 2.79 | 2.82 | 2.68 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.07 | 20.0 |
| BC14040 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 1.97 | 1.98 | 0.197 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.506 | 20.0 |
| BC14041 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 2.20 | 2.18 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.913 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 12:44

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-23V

Laboratory ID Number: BC14038

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14040 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.243 | 0.243 | 0.200 | 0.170 to 0.230 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.251 | 0.252 | 0.216 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.398 | 20.0 |
| BC14040 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 19.1 | 19.3 | 5.01 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.04 | 20.0 |
| BC14041 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 19.4 | 19.5 | 5.19 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.514 | 20.0 |
| BC14040 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.205 | 0.202 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.47 | 20.0 |
| BC14041 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.209 | 0.201 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.90 | 20.0 |
| BC14041 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00361 | 0.00359 | 0.00369 | 0.00340 to 0.00460 | 90.2 | 70.0 to 130 | 0.556 | 20.0 |
| BC14040 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0996 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.40 | 20.0 |
| BC14041 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.102 | 0.0990 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.99 | 20.0 |
| BC14040 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.7 | 11.8 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BC14041 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.8 | 11.5 | 10.5 | 8.50 to 11.5 | 103 | 70.0 to 130 | 2.58 | 20.0 |
| BC14040 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.103 | 0.102 | 0.0974 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC14040 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 14.3 | 14.5 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.39 | 20.0 |
| BC14041 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 14.5 | 14.4 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.692 | 20.0 |
| BC14040 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 37.9 | 38.0 | 4.98 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.264 | 20.0 |
| BC14041 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 39.0 | 39.2 | 5.29 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.512 | 20.0 |
| BC14044 | Sulfate | mg/L | 0.0313 | 2.0 | 640 | 1050 | 1020 | 19.4 | 18.0 to 22.0 | 107 | 80.0 to 120 | 2.90 | 20.0 |
| BC14040 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14041 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14039 | Total Organic Carbon | mg/L | 0.261 | 1.00 | 10.0 | 10.6 | 10.9 | 24.0 | | 95.9 | 80.0 to 120 | 2.79 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 12:44

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-23V

Laboratory ID Number: BC14038

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|------|-------|
| BC14042 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 130 | 50.5 | 45.0 to 55.0 | | | 1.55 | 10.0 |
| BC14039 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.01 | 0.021 | 1.87 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14042 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 312 | 50.0 | 40.0 to 60.0 | | | 2.27 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HS

Location Code: WMWGORAP

Collected: 7/26/22 14:15

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14039

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:53 | | 1.015 | 1.01 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 11:53 | | 1.015 | 36.7 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:53 | | 1.015 | 0.614 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:53 | | 1.015 | 0.0954 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:53 | | 1.015 | 22.2 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:53 | | 1 | 18.6 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:53 | | 1.015 | 8.70 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:53 | | 1.015 | 22.3 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:28 | | 1.015 | 0.995 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 14:28 | | 1.015 | 35.7 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 14:28 | | 1.015 | 0.642 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:28 | | 1.015 | 0.0933 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:28 | | 1.015 | 22.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:28 | | 1 | 18.6 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:28 | | 1.015 | 8.71 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 14:28 | | 1.015 | 22.3 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | 0.0176 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | 0.000471 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | 0.0497 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | 0.000309 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | 0.00237 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | 0.205 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | 0.000889 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | 1.92 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HS

Location Code: WMWGORAP

Collected: 7/26/22 14:15

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14039

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 14:04 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | 0.000436 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | 0.0501 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | 0.000238 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | 0.00230 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | 0.0000744 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | 0.199 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | 0.000885 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | 1.95 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 18:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:22 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 17:05 | 7/28/22 17:05 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 112 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 265 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 112 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | Not Detected | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 08:50 | 8/4/22 08:50 | | 1 | 1.01 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HS

Location Code: WMWGORAP

Collected: 7/26/22 14:15

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14039

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:14 | 8/8/22 10:14 | | 1 | 7.24 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:55 | 8/8/22 13:55 | | 1 | 0.121 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:57 | 8/4/22 10:57 | | 5 | 109 | mg/L | 3.0 | 10 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/26/22 14:11 | 7/26/22 14:11 | | | 413.70 | uS/cm | | | FA |
| pH | 7/26/22 14:11 | 7/26/22 14:11 | | | 6.19 | SU | | | FA |
| Temperature | 7/26/22 14:11 | 7/26/22 14:11 | | | 21.18 | C | | | FA |
| Turbidity | 7/26/22 14:11 | 7/26/22 14:11 | | | 4.78 | NTU | | | FA |
| Sulfide | 7/26/22 14:11 | 7/26/22 14:11 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 14:15

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-41HS

Laboratory ID Number: BC14039

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC14040 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.107 | 0.104 | 0.103 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 | |
| BC14041 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.143 | 0.141 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0911 | 0.0907 | 0.0889 | 0.0850 to 0.115 | 91.1 | 70.0 to 130 | 0.440 | 20.0 | |
| BC14041 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0973 | 0.0951 | 0.0945 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.29 | 20.0 | |
| BC14040 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.0973 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14041 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 | |
| BC14040 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 1.10 | 1.07 | 0.0994 | 0.0850 to 0.115 | 90.0 | 70.0 to 130 | 2.76 | 20.0 | |
| BC14041 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 1.10 | 1.08 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.83 | 20.0 | |
| BC14040 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.100 | 0.103 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.96 | 20.0 | |
| BC14041 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.109 | 0.110 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14040 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.09 | 1.10 | 0.986 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.913 | 20.0 | |
| BC14041 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.12 | 1.11 | 1.01 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.897 | 20.0 | |
| BC14040 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0989 | 0.0994 | 0.0960 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.504 | 20.0 | |
| BC14041 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.0985 | 0.0999 | 0.0983 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 1.41 | 20.0 | |
| BC14040 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 50.8 | 55.3 | 4.85 | 4.25 to 5.75 | 80.0 | 70.0 to 130 | 8.48 | 20.0 | |
| BC14041 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 46.9 | 47.4 | 4.93 | 4.25 to 5.75 | 110 | 70.0 to 130 | 1.06 | 20.0 | |
| BC14039 | Chloride | mg/L | -0.00291 | 1.00 | 10.0 | 17.2 | 17.3 | 10.1 | 9.00 to 11.0 | 99.6 | 80.0 to 120 | 0.580 | 20.0 | |
| BC14040 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0992 | 0.0967 | 0.0970 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.55 | 20.0 | |
| BC14041 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.100 | 0.0973 | 0.0997 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 2.74 | 20.0 | |
| BC14040 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0974 | 0.0968 | 0.0981 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.618 | 20.0 | |
| BC14041 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0987 | 0.0961 | 0.101 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 2.67 | 20.0 | |
| BC14039 | Fluoride | mg/L | -0.0297 | 0.125 | 2.50 | 2.79 | 2.82 | 2.68 | 2.25 to 2.75 | 107 | 80.0 to 120 | 1.07 | 20.0 | |
| BC14040 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 1.97 | 1.98 | 0.197 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.506 | 20.0 | |
| BC14041 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 2.20 | 2.18 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.913 | 20.0 | |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 14:15

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-41HS

Laboratory ID Number: BC14039

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14040 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.243 | 0.243 | 0.200 | 0.170 to 0.230 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.251 | 0.252 | 0.216 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.398 | 20.0 |
| BC14040 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 19.1 | 19.3 | 5.01 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.04 | 20.0 |
| BC14041 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 19.4 | 19.5 | 5.19 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.514 | 20.0 |
| BC14040 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.205 | 0.202 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.47 | 20.0 |
| BC14041 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.209 | 0.201 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.90 | 20.0 |
| BC14041 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00361 | 0.00359 | 0.00369 | 0.00340 to 0.00460 | 90.2 | 70.0 to 130 | 0.556 | 20.0 |
| BC14040 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0996 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.40 | 20.0 |
| BC14041 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.102 | 0.0990 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.99 | 20.0 |
| BC14040 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.7 | 11.8 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BC14041 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.8 | 11.5 | 10.5 | 8.50 to 11.5 | 103 | 70.0 to 130 | 2.58 | 20.0 |
| BC14040 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.103 | 0.102 | 0.0974 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC14040 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 14.3 | 14.5 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.39 | 20.0 |
| BC14041 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 14.5 | 14.4 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.692 | 20.0 |
| BC14040 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 37.9 | 38.0 | 4.98 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.264 | 20.0 |
| BC14041 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 39.0 | 39.2 | 5.29 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.512 | 20.0 |
| BC14044 | Sulfate | mg/L | 0.0313 | 2.0 | 640 | 1050 | 1020 | 19.4 | 18.0 to 22.0 | 107 | 80.0 to 120 | 2.90 | 20.0 |
| BC14040 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14041 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14039 | Total Organic Carbon | mg/L | 0.261 | 1.00 | 10.0 | 10.6 | 10.9 | 24.0 | | 95.9 | 80.0 to 120 | 2.79 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 14:15

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-41HS

Laboratory ID Number: BC14039

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC14042 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 130 | 50.5 | 45.0 to 55.0 | | | 1.55 | 10.0 |
| BC14039 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 2.01 | 0.021 | 1.87 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14042 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 312 | 50.0 | 40.0 to 60.0 | | | 2.27 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H

Location Code: WMWGORAP
Collected: 7/27/22 10:10
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14040

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:55 | | 1.015 | 0.0641 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 13:34 | | 10.15 | 41.9 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:55 | | 1.015 | 2.00 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:55 | | 1.015 | 0.0253 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:55 | | 1.015 | 14.2 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:55 | | 1 | 28.9 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:55 | | 1.015 | 13.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:55 | | 1.015 | 32.9 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:30 | | 1.015 | 0.0678 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 11:20 | | 10.15 | 46.8 | mg/L | 0.70035 | 4.06 | RA |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 14:30 | | 1.015 | 1.79 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:30 | | 1.015 | 0.0253 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:30 | | 1.015 | 14.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:30 | | 1 | 28.7 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:30 | | 1.015 | 13.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 14:30 | | 1.015 | 33.0 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | 0.0352 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | 0.000220 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | 1.01 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | 0.000446 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | 0.000290 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | 0.104 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | 0.000550 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | 1.46 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H

Location Code: WMWGORAP

Collected: 7/27/22 10:10

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14040

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|----|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 14:11 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | 0.000112 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | 1.01 | mg/L | 0.000508 | 0.001015 | RA |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | 0.000257 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | 0.000232 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | 0.102 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | 0.000530 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | 1.42 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 18:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:24 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 17:14 | 7/28/22 17:14 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 219 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 252 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 217 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 1.82 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 10:33 | 8/4/22 10:33 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H

Location Code: WMWGORAP

Collected: 7/27/22 10:10

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14040

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:30 | 8/8/22 10:30 | | 1 | 3.30 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:07 | 8/8/22 14:07 | | 1 | 0.215 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:46 | 8/4/22 10:46 | | 1 | 6.24 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/27/22 10:05 | 7/27/22 10:05 | | | 389.18 | uS/cm | | | FA |
| pH | 7/27/22 10:05 | 7/27/22 10:05 | | | 6.98 | SU | | | FA |
| Temperature | 7/27/22 10:05 | 7/27/22 10:05 | | | 19.29 | C | | | FA |
| Turbidity | 7/27/22 10:05 | 7/27/22 10:05 | | | 3.06 | NTU | | | FA |
| Sulfide | 7/27/22 10:05 | 7/27/22 10:05 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 10:10

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: BC14040

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC14040 | Aluminum, Dissolved | mg/L | 0.000196 | 0.010 | 0.100 | 0.107 | 0.104 | 0.103 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC14041 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.143 | 0.141 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.41 | 20.0 |
| BC14040 | Antimony, Dissolved | mg/L | 0.000223 | 0.00100 | 0.100 | 0.0911 | 0.0907 | 0.0889 | 0.0850 to 0.115 | 91.1 | 70.0 to 130 | 0.440 | 20.0 |
| BC14041 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0973 | 0.0951 | 0.0945 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.29 | 20.0 |
| BC14040 | Arsenic, Dissolved | mg/L | -0.0000126 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.0973 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14040 | Barium, Dissolved | mg/L | 0.0000665 | 0.00100 | 0.100 | 1.10 | 1.07 | 0.0994 | 0.0850 to 0.115 | 90.0 | 70.0 to 130 | 2.76 | 20.0 |
| BC14041 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 1.10 | 1.08 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.83 | 20.0 |
| BC14040 | Beryllium, Dissolved | mg/L | 0.0000339 | 0.000880 | 0.100 | 0.100 | 0.103 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 2.96 | 20.0 |
| BC14041 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.109 | 0.110 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.913 | 20.0 |
| BC14040 | Boron, Dissolved | mg/L | -0.00200 | 0.0650 | 1.00 | 1.09 | 1.10 | 0.986 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.913 | 20.0 |
| BC14041 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.12 | 1.11 | 1.01 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.897 | 20.0 |
| BC14040 | Cadmium, Dissolved | mg/L | -0.0000005 | 0.000147 | 0.100 | 0.0989 | 0.0994 | 0.0960 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.504 | 20.0 |
| BC14041 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.0985 | 0.0999 | 0.0983 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 1.41 | 20.0 |
| BC14040 | Calcium, Dissolved | mg/L | -0.00356 | 0.152 | 5.00 | 50.8 | 55.3 | 4.85 | 4.25 to 5.75 | 80.0 | 70.0 to 130 | 8.48 | 20.0 |
| BC14041 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 46.9 | 47.4 | 4.93 | 4.25 to 5.75 | 110 | 70.0 to 130 | 1.06 | 20.0 |
| BC14524 | Chloride | mg/L | -0.000301 | 1.00 | 10.0 | 24.8 | 24.7 | 10.0 | 9.00 to 11.0 | 87.0 | 80.0 to 120 | 0.404 | 20.0 |
| BC14040 | Chromium, Dissolved | mg/L | -0.0000207 | 0.000440 | 0.100 | 0.0992 | 0.0967 | 0.0970 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.55 | 20.0 |
| BC14041 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.100 | 0.0973 | 0.0997 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 2.74 | 20.0 |
| BC14040 | Cobalt, Dissolved | mg/L | 0.0000035 | 0.000147 | 0.100 | 0.0974 | 0.0968 | 0.0981 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 0.618 | 20.0 |
| BC14041 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0987 | 0.0961 | 0.101 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 2.67 | 20.0 |
| BC14524 | Fluoride | mg/L | -0.0255 | 0.125 | 2.50 | 2.83 | 2.85 | 2.72 | 2.25 to 2.75 | 107 | 80.0 to 120 | 0.704 | 20.0 |
| BC14040 | Iron, Dissolved | mg/L | -0.000138 | 0.0176 | 0.2 | 1.97 | 1.98 | 0.197 | 0.170 to 0.230 | 90.0 | 70.0 to 130 | 0.506 | 20.0 |
| BC14041 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 2.20 | 2.18 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.913 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 10:10

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: BC14040

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14040 | Lead, Dissolved | mg/L | 0.0000171 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14040 | Lithium, Dissolved | mg/L | -0.000253 | 0.0154 | 0.200 | 0.243 | 0.243 | 0.200 | 0.170 to 0.230 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.251 | 0.252 | 0.216 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.398 | 20.0 |
| BC14040 | Magnesium, Dissolved | mg/L | -0.000177 | 0.0462 | 5.00 | 19.1 | 19.3 | 5.01 | 4.25 to 5.75 | 96.0 | 70.0 to 130 | 1.04 | 20.0 |
| BC14041 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 19.4 | 19.5 | 5.19 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.514 | 20.0 |
| BC14040 | Manganese, Dissolved | mg/L | 0.0000129 | 0.00033 | 0.100 | 0.205 | 0.202 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.47 | 20.0 |
| BC14041 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.209 | 0.201 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.90 | 20.0 |
| BC14041 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00361 | 0.00359 | 0.00369 | 0.00340 to 0.00460 | 90.2 | 70.0 to 130 | 0.556 | 20.0 |
| BC14040 | Molybdenum, Dissolved | mg/L | 0.000008 | 0.0002 | 0.100 | 0.101 | 0.0996 | 0.0960 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.40 | 20.0 |
| BC14041 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.102 | 0.0990 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.99 | 20.0 |
| BC14040 | Potassium, Dissolved | mg/L | -0.0148 | 0.367 | 10.0 | 11.7 | 11.8 | 10.2 | 8.50 to 11.5 | 103 | 70.0 to 130 | 0.851 | 20.0 |
| BC14041 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.8 | 11.5 | 10.5 | 8.50 to 11.5 | 103 | 70.0 to 130 | 2.58 | 20.0 |
| BC14040 | Selenium, Dissolved | mg/L | 0.0000688 | 0.00100 | 0.100 | 0.103 | 0.102 | 0.0974 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14041 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC14040 | Silicon, Dissolved | mg/L | -0.000865 | 0.0440 | 1.00 | 14.3 | 14.5 | 0.998 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 1.39 | 20.0 |
| BC14041 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 14.5 | 14.4 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.692 | 20.0 |
| BC14040 | Sodium, Dissolved | mg/L | 0.00209 | 0.0660 | 5.00 | 37.9 | 38.0 | 4.98 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.264 | 20.0 |
| BC14041 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 39.0 | 39.2 | 5.29 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.512 | 20.0 |
| BC14044 | Sulfate | mg/L | 0.0313 | 2.0 | 640 | 1050 | 1020 | 19.4 | 18.0 to 22.0 | 107 | 80.0 to 120 | 2.90 | 20.0 |
| BC14040 | Thallium, Dissolved | mg/L | 0.0000184 | 0.000147 | 0.100 | 0.106 | 0.103 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14041 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14044 | Total Organic Carbon | mg/L | 0.225 | 1.00 | 10.0 | 11.4 | 10.8 | 25.7 | | 102 | 80.0 to 120 | 5.41 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 10:10

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-24H

Laboratory ID Number: BC14040

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC14042 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 130 | 50.5 | 45.0 to 55.0 | | | 1.55 | 10.0 |
| BC14044 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.09 | 0.045 | 1.87 | 1.80 to 2.20 | 104 | 90.0 to 110 | 0.00 | 15.0 |
| BC14042 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 312 | 50.0 | 40.0 to 60.0 | | | 2.27 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H DUP

Location Code: WMWGORAP
Collected: 7/27/22 10:10
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14041

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 11:58 | | 1.015 | 0.0641 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 13:37 | | 10.15 | 41.4 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 11:58 | | 1.015 | 2.00 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 11:58 | | 1.015 | 0.0257 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 11:58 | | 1.015 | 14.4 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 11:58 | | 1 | 28.9 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 11:58 | | 1.015 | 13.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 11:58 | | 1.015 | 33.6 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:51 | | 1.015 | 0.0669 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/10/22 14:51 | | 1.015 | 39.7 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 14:51 | | 1.015 | 1.78 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:51 | | 1.015 | 0.0254 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:51 | | 1.015 | 14.2 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:51 | | 1 | 28.5 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:51 | | 1.015 | 13.3 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 14:51 | | 1.015 | 32.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | 0.0361 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | 0.000219 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | 1.00 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | 0.000396 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | 0.000305 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | 0.105 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | 0.000466 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | 1.50 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H DUP

Location Code: WMWGORAP

Collected: 7/27/22 10:10

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14041

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 14:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | 0.000158 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | 1.01 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | 0.000299 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | 0.000236 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | 0.102 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | 0.000487 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | 1.51 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 19:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:26 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 17:16 | 7/28/22 17:16 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 223 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 255 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 221 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 2.17 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 10:57 | 8/4/22 10:57 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-24H DUP

Location Code: WMWGORAP

Collected: 7/27/22 10:10

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14041

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:31 | 8/8/22 10:31 | | 1 | 3.28 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:08 | 8/8/22 14:08 | | 1 | 0.202 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:47 | 8/4/22 10:47 | | 1 | 6.54 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/27/22 10:05 | 7/27/22 10:05 | | | 389.18 | uS/cm | | | FA |
| pH | 7/27/22 10:05 | 7/27/22 10:05 | | | 6.98 | SU | | | FA |
| Temperature | 7/27/22 10:05 | 7/27/22 10:05 | | | 19.29 | C | | | FA |
| Turbidity | 7/27/22 10:05 | 7/27/22 10:05 | | | 3.06 | NTU | | | FA |
| Sulfide | 7/27/22 10:05 | 7/27/22 10:05 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 10:10

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-24H DUP

Laboratory ID Number: BC14041

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14044 | Aluminum, Dissolved | mg/L | 0.000232 | 0.010 | 0.100 | 0.103 | 0.106 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC14041 | Aluminum, Total | mg/L | 0.00118 | 0.010 | 0.100 | 0.143 | 0.141 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.41 | 20.0 |
| BC14044 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0916 | 0.0935 | 0.0877 | 0.0850 to 0.115 | 91.6 | 70.0 to 130 | 2.05 | 20.0 |
| BC14041 | Antimony, Total | mg/L | 0.000301 | 0.00100 | 0.100 | 0.0973 | 0.0951 | 0.0945 | 0.0850 to 0.115 | 97.3 | 70.0 to 130 | 2.29 | 20.0 |
| BC14044 | Arsenic, Dissolved | mg/L | -0.0000181 | 0.000176 | 0.100 | 0.112 | 0.113 | 0.0966 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.889 | 20.0 |
| BC14041 | Arsenic, Total | mg/L | -0.0000068 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14044 | Barium, Dissolved | mg/L | 0.0000705 | 0.00100 | 0.100 | 0.123 | 0.123 | 0.0980 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Barium, Total | mg/L | 0.0000501 | 0.00100 | 0.100 | 1.10 | 1.08 | 0.103 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.83 | 20.0 |
| BC14044 | Beryllium, Dissolved | mg/L | 0.0000349 | 0.000880 | 0.100 | 0.100 | 0.108 | 0.0992 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 7.69 | 20.0 |
| BC14041 | Beryllium, Total | mg/L | 0.0000338 | 0.000880 | 0.100 | 0.109 | 0.110 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.913 | 20.0 |
| BC14044 | Boron, Dissolved | mg/L | -0.00204 | 0.0650 | 1.00 | 1.08 | 1.08 | 0.992 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Boron, Total | mg/L | -0.00559 | 0.0650 | 1.00 | 1.12 | 1.11 | 1.01 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.897 | 20.0 |
| BC14044 | Cadmium, Dissolved | mg/L | 0.0000092 | 0.000147 | 0.100 | 0.0989 | 0.100 | 0.0979 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 1.11 | 20.0 |
| BC14041 | Cadmium, Total | mg/L | -0.0000002 | 0.000147 | 0.100 | 0.0985 | 0.0999 | 0.0983 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 1.41 | 20.0 |
| BC14044 | Calcium, Dissolved | mg/L | -0.00812 | 0.152 | 5.00 | 170 | 181 | 4.57 | 4.25 to 5.75 | 240 | 70.0 to 130 | 6.27 | 20.0 |
| BC14041 | Calcium, Total | mg/L | -0.0195 | 0.152 | 5.00 | 46.9 | 47.4 | 4.93 | 4.25 to 5.75 | 110 | 70.0 to 130 | 1.06 | 20.0 |
| BC14524 | Chloride | mg/L | -0.000301 | 1.00 | 10.0 | 24.8 | 24.7 | 10.0 | 9.00 to 11.0 | 87.0 | 80.0 to 120 | 0.404 | 20.0 |
| BC14044 | Chromium, Dissolved | mg/L | 0.000043 | 0.000440 | 0.100 | 0.0993 | 0.100 | 0.0994 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.702 | 20.0 |
| BC14041 | Chromium, Total | mg/L | 0.0000045 | 0.000440 | 0.100 | 0.100 | 0.0973 | 0.0997 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 2.74 | 20.0 |
| BC14044 | Cobalt, Dissolved | mg/L | 0.0000026 | 0.000147 | 0.100 | 0.0980 | 0.0989 | 0.101 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.914 | 20.0 |
| BC14041 | Cobalt, Total | mg/L | 0.0000064 | 0.000147 | 0.100 | 0.0987 | 0.0961 | 0.101 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 2.67 | 20.0 |
| BC14524 | Fluoride | mg/L | -0.0255 | 0.125 | 2.50 | 2.83 | 2.85 | 2.72 | 2.25 to 2.75 | 107 | 80.0 to 120 | 0.704 | 20.0 |
| BC14044 | Iron, Dissolved | mg/L | 0.000223 | 0.0176 | 0.2 | 3.96 | 3.94 | 0.197 | 0.170 to 0.230 | 80.0 | 70.0 to 130 | 0.506 | 20.0 |
| BC14041 | Iron, Total | mg/L | 0.000224 | 0.0176 | 0.2 | 2.20 | 2.18 | 0.202 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.913 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 10:10

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-24H DUP

Laboratory ID Number: BC14041

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14044 | Lead, Dissolved | mg/L | 0.0000206 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14041 | Lead, Total | mg/L | 0.0000189 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.107 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14044 | Lithium, Dissolved | mg/L | -0.000311 | 0.0154 | 0.200 | 0.259 | 0.254 | 0.215 | 0.170 to 0.230 | 112 | 70.0 to 130 | 1.95 | 20.0 |
| BC14041 | Lithium, Total | mg/L | -0.000039 | 0.0154 | 0.200 | 0.251 | 0.252 | 0.216 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.398 | 20.0 |
| BC14044 | Magnesium, Dissolved | mg/L | 0.00369 | 0.0462 | 5.00 | 67.3 | 71.3 | 5.21 | 4.25 to 5.75 | 168 | 70.0 to 130 | 5.77 | 20.0 |
| BC14041 | Magnesium, Total | mg/L | 0.00294 | 0.0462 | 5.00 | 19.4 | 19.5 | 5.19 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.514 | 20.0 |
| BC14044 | Manganese, Dissolved | mg/L | 0.0000059 | 0.00033 | 0.100 | 1.08 | 1.07 | 0.106 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 0.930 | 20.0 |
| BC14041 | Manganese, Total | mg/L | 0.0000171 | 0.00033 | 0.100 | 0.209 | 0.201 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.90 | 20.0 |
| BC14041 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00361 | 0.00359 | 0.00369 | 0.00340 to 0.00460 | 90.2 | 70.0 to 130 | 0.556 | 20.0 |
| BC14044 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.100 | 0.102 | 0.0988 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 1.98 | 20.0 |
| BC14041 | Molybdenum, Total | mg/L | 0.0000218 | 0.0002 | 0.100 | 0.102 | 0.0990 | 0.0989 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.99 | 20.0 |
| BC14044 | Potassium, Dissolved | mg/L | 0.0233 | 0.367 | 10.0 | 12.7 | 12.4 | 10.7 | 8.50 to 11.5 | 106 | 70.0 to 130 | 2.39 | 20.0 |
| BC14041 | Potassium, Total | mg/L | -0.00555 | 0.367 | 10.0 | 11.8 | 11.5 | 10.5 | 8.50 to 11.5 | 103 | 70.0 to 130 | 2.58 | 20.0 |
| BC14044 | Selenium, Dissolved | mg/L | -0.0000054 | 0.00100 | 0.100 | 0.102 | 0.104 | 0.0992 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC14041 | Selenium, Total | mg/L | 0.000235 | 0.00100 | 0.100 | 0.105 | 0.104 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.957 | 20.0 |
| BC14044 | Silicon, Dissolved | mg/L | -0.000199 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14041 | Silicon, Total | mg/L | 0.000745 | 0.0440 | 1.00 | 14.5 | 14.4 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.692 | 20.0 |
| BC14044 | Sodium, Dissolved | mg/L | 0.00304 | 0.0660 | 5.00 | 40.8 | 40.3 | 5.27 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.23 | 20.0 |
| BC14041 | Sodium, Total | mg/L | 0.000946 | 0.0660 | 5.00 | 39.0 | 39.2 | 5.29 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.512 | 20.0 |
| BC14044 | Sulfate | mg/L | 0.0313 | 2.0 | 640 | 1050 | 1020 | 19.4 | 18.0 to 22.0 | 107 | 80.0 to 120 | 2.90 | 20.0 |
| BC14044 | Thallium, Dissolved | mg/L | 0.000016 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14041 | Thallium, Total | mg/L | 0.0000193 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.107 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14044 | Total Organic Carbon | mg/L | 0.225 | 1.00 | 10.0 | 11.4 | 10.8 | 25.7 | | 102 | 80.0 to 120 | 5.41 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 10:10

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-24H DUP

Laboratory ID Number: BC14041

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|------|-------|
| BC14534 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 60.2 | 50.9 | 45.0 to 55.0 | | | 1.48 | 10.0 |
| BC14044 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.09 | 0.045 | 1.87 | 1.80 to 2.20 | 104 | 90.0 to 110 | 0.00 | 15.0 |
| BC14042 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 312 | 50.0 | 40.0 to 60.0 | | | 2.27 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HD

Location Code: WMWGORAP
Collected: 7/27/22 11:45
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14042

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 12:19 | | 1.015 | 1.62 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 13:52 | | 10.15 | 57.5 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 12:19 | | 1.015 | 0.0186 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 12:19 | | 1.015 | 0.413 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 12:19 | | 1.015 | 18.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 12:19 | | 1 | 15.7 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 12:19 | | 1.015 | 7.33 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 12:19 | | 1.015 | 20.4 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:54 | | 1.015 | 1.56 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 11:36 | | 10.15 | 72.7 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 14:54 | | 1.015 | 0.0174 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:54 | | 1.015 | 0.397 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/10/22 14:54 | | 1.015 | 18.0 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:54 | | 1 | 15.4 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:54 | | 1.015 | 7.21 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 14:54 | | 1.015 | 19.8 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | 0.00271 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | 0.0475 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | 0.000351 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | 0.000979 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | 0.636 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | 0.0351 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | 1.74 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HD

Location Code: WMWGORAP

Collected: 7/27/22 11:45

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14042

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 15:01 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | 0.00295 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | 0.0463 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | 0.000264 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | 0.000958 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | 0.613 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | 0.0349 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | 1.70 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 19:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:38 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 17:18 | 7/28/22 17:18 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 128 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 305 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 127 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/5/22 13:40 | 8/5/22 15:20 | | 1 | 1.31 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 11:21 | 8/4/22 11:21 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-41HD

Location Code: WMWGORAP

Collected: 7/27/22 11:45

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14042

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:32 | 8/8/22 10:32 | | 1 | 7.18 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:10 | 8/8/22 14:10 | | 1 | 0.122 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:58 | 8/4/22 10:58 | | 5 | 116 | mg/L | 3.0 | 10 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/27/22 11:41 | 7/27/22 11:41 | | | 450.11 | uS/cm | | | FA |
| pH | 7/27/22 11:41 | 7/27/22 11:41 | | | 7.16 | SU | | | FA |
| Temperature | 7/27/22 11:41 | 7/27/22 11:41 | | | 18.86 | C | | | FA |
| Turbidity | 7/27/22 11:41 | 7/27/22 11:41 | | | 0.41 | NTU | | | FA |
| Sulfide | 7/27/22 11:41 | 7/27/22 11:41 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 11:45

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-41HD

Laboratory ID Number: BC14042

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC14044 | Aluminum, Dissolved | mg/L | 0.000232 | 0.010 | 0.100 | 0.103 | 0.106 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC14044 | Aluminum, Total | mg/L | 0.00135 | 0.010 | 0.100 | 0.107 | 0.108 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14044 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0916 | 0.0935 | 0.0877 | 0.0850 to 0.115 | 91.6 | 70.0 to 130 | 2.05 | 20.0 |
| BC14044 | Antimony, Total | mg/L | 0.000253 | 0.00100 | 0.100 | 0.0959 | 0.0965 | 0.0938 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.624 | 20.0 |
| BC14044 | Arsenic, Dissolved | mg/L | -0.0000181 | 0.000176 | 0.100 | 0.112 | 0.113 | 0.0966 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.889 | 20.0 |
| BC14044 | Arsenic, Total | mg/L | -0.0000103 | 0.000176 | 0.100 | 0.109 | 0.114 | 0.0995 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 4.48 | 20.0 |
| BC14044 | Barium, Dissolved | mg/L | 0.0000705 | 0.00100 | 0.100 | 0.123 | 0.123 | 0.0980 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Barium, Total | mg/L | 0.0000283 | 0.00100 | 0.100 | 0.121 | 0.123 | 0.104 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.64 | 20.0 |
| BC14044 | Beryllium, Dissolved | mg/L | 0.0000349 | 0.000880 | 0.100 | 0.100 | 0.108 | 0.0992 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 7.69 | 20.0 |
| BC14044 | Beryllium, Total | mg/L | 0.0000354 | 0.000880 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Boron, Dissolved | mg/L | -0.00204 | 0.0650 | 1.00 | 1.08 | 1.08 | 0.992 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Boron, Total | mg/L | -0.00607 | 0.0650 | 1.00 | 1.11 | 1.11 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Cadmium, Dissolved | mg/L | 0.0000092 | 0.000147 | 0.100 | 0.0989 | 0.100 | 0.0979 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 1.11 | 20.0 |
| BC14044 | Cadmium, Total | mg/L | -0.0000044 | 0.000147 | 0.100 | 0.100 | 0.0995 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.501 | 20.0 |
| BC14044 | Calcium, Dissolved | mg/L | -0.00812 | 0.152 | 5.00 | 170 | 181 | 4.57 | 4.25 to 5.75 | 240 | 70.0 to 130 | 6.27 | 20.0 |
| BC14044 | Calcium, Total | mg/L | -0.0101 | 0.152 | 5.00 | 131 | 134 | 4.72 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 2.26 | 20.0 |
| BC14524 | Chloride | mg/L | -0.000301 | 1.00 | 10.0 | 24.8 | 24.7 | 10.0 | 9.00 to 11.0 | 87.0 | 80.0 to 120 | 0.404 | 20.0 |
| BC14044 | Chromium, Dissolved | mg/L | 0.000043 | 0.000440 | 0.100 | 0.0993 | 0.100 | 0.0994 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.702 | 20.0 |
| BC14044 | Chromium, Total | mg/L | 0.0000345 | 0.000440 | 0.100 | 0.0992 | 0.0997 | 0.100 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.503 | 20.0 |
| BC14044 | Cobalt, Dissolved | mg/L | 0.0000026 | 0.000147 | 0.100 | 0.0980 | 0.0989 | 0.101 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.914 | 20.0 |
| BC14044 | Cobalt, Total | mg/L | 0.0000114 | 0.000147 | 0.100 | 0.0985 | 0.0987 | 0.101 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.203 | 20.0 |
| BC14524 | Fluoride | mg/L | -0.0255 | 0.125 | 2.50 | 2.83 | 2.85 | 2.72 | 2.25 to 2.75 | 107 | 80.0 to 120 | 0.704 | 20.0 |
| BC14044 | Iron, Dissolved | mg/L | 0.000223 | 0.0176 | 0.2 | 3.96 | 3.94 | 0.197 | 0.170 to 0.230 | 80.0 | 70.0 to 130 | 0.506 | 20.0 |
| BC14044 | Iron, Total | mg/L | 0.000327 | 0.0176 | 0.2 | 4.42 | 4.46 | 0.203 | 0.170 to 0.230 | 35.0 | 70.0 to 130 | 0.901 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 11:45

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-41HD

Laboratory ID Number: BC14042

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC14044 | Lead, Dissolved | mg/L | 0.0000206 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14044 | Lead, Total | mg/L | 0.0000136 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Lithium, Dissolved | mg/L | -0.000311 | 0.0154 | 0.200 | 0.259 | 0.254 | 0.215 | 0.170 to 0.230 | 112 | 70.0 to 130 | 1.95 | 20.0 |
| BC14044 | Lithium, Total | mg/L | -0.000168 | 0.0154 | 0.200 | 0.269 | 0.267 | 0.221 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.746 | 20.0 |
| BC14044 | Magnesium, Dissolved | mg/L | 0.00369 | 0.0462 | 5.00 | 67.3 | 71.3 | 5.21 | 4.25 to 5.75 | 168 | 70.0 to 130 | 5.77 | 20.0 |
| BC14044 | Magnesium, Total | mg/L | 0.000556 | 0.0462 | 5.00 | 54.8 | 54.9 | 5.25 | 4.25 to 5.75 | 44.0 | 70.0 to 130 | 0.182 | 20.0 |
| BC14044 | Manganese, Dissolved | mg/L | 0.0000059 | 0.00033 | 0.100 | 1.08 | 1.07 | 0.106 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 0.930 | 20.0 |
| BC14044 | Manganese, Total | mg/L | 0.0000255 | 0.00033 | 0.100 | 1.08 | 1.09 | 0.106 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.922 | 20.0 |
| BC14044 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00369 | 0.00357 | 0.00369 | 0.00340 to 0.00460 | 92.2 | 70.0 to 130 | 3.31 | 20.0 |
| BC14044 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.100 | 0.102 | 0.0988 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 1.98 | 20.0 |
| BC14044 | Molybdenum, Total | mg/L | 0.0000062 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Potassium, Dissolved | mg/L | 0.0233 | 0.367 | 10.0 | 12.7 | 12.4 | 10.7 | 8.50 to 11.5 | 106 | 70.0 to 130 | 2.39 | 20.0 |
| BC14044 | Potassium, Total | mg/L | -0.0109 | 0.367 | 10.0 | 12.6 | 12.6 | 10.3 | 8.50 to 11.5 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Selenium, Dissolved | mg/L | -0.0000054 | 0.00100 | 0.100 | 0.102 | 0.104 | 0.0992 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC14044 | Selenium, Total | mg/L | 0.0000458 | 0.00100 | 0.100 | 0.104 | 0.105 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14044 | Silicon, Dissolved | mg/L | -0.000199 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Silicon, Total | mg/L | 0.000557 | 0.0440 | 1.00 | 11.8 | 11.8 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Sodium, Dissolved | mg/L | 0.00304 | 0.0660 | 5.00 | 40.8 | 40.3 | 5.27 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.23 | 20.0 |
| BC14044 | Sodium, Total | mg/L | 0.00992 | 0.0660 | 5.00 | 42.4 | 42.3 | 5.39 | 4.25 to 5.75 | 124 | 70.0 to 130 | 0.236 | 20.0 |
| BC14044 | Sulfate | mg/L | 0.0313 | 2.0 | 640 | 1050 | 1020 | 19.4 | 18.0 to 22.0 | 107 | 80.0 to 120 | 2.90 | 20.0 |
| BC14044 | Thallium, Dissolved | mg/L | 0.000016 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14044 | Thallium, Total | mg/L | 0.0000174 | 0.000147 | 0.100 | 0.103 | 0.106 | 0.0998 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC14044 | Total Organic Carbon | mg/L | 0.225 | 1.00 | 10.0 | 11.4 | 10.8 | 25.7 | | 102 | 80.0 to 120 | 5.41 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 11:45

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-41HD

Laboratory ID Number: BC14042

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14042 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 130 | 50.5 | 45.0 to 55.0 | | | 1.55 | 10.0 |
| BC14044 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.09 | 0.045 | 1.87 | 1.80 to 2.20 | 104 | 90.0 to 110 | 0.00 | 15.0 |
| BC14042 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 312 | 50.0 | 40.0 to 60.0 | | | 2.27 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-4

Location Code: WMWGORAPFB
Collected: 7/27/22 12:30
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14043

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 12:22 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 12:22 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U | |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 12:22 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 12:22 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 12:22 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U | |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 12:22 | | 1 | Not Detected | mg/L | | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 12:22 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 12:22 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U | |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | 0.000280 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U | |
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 15:08 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:40 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U | |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 17:20 | 7/28/22 17:20 | | 1 | 0.225 | mg/L as N | 0.20 | 0.3 | J | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | Not Detected | mg/L | | 25 | U | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-4

Location Code: WMWGORAPFB
Collected: 7/27/22 12:30
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14043

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 11:41 | 8/4/22 11:41 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:33 | 8/8/22 10:33 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:11 | 8/8/22 14:11 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:50 | 8/4/22 10:50 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/27/22 12:30

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond Field Blank-4

Laboratory ID Number: BC14043

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14044 | Aluminum, Total | mg/L | 0.00135 | 0.010 | 0.100 | 0.107 | 0.108 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14044 | Antimony, Total | mg/L | 0.000253 | 0.00100 | 0.100 | 0.0959 | 0.0965 | 0.0938 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.624 | 20.0 |
| BC14044 | Arsenic, Total | mg/L | -0.0000103 | 0.000176 | 0.100 | 0.109 | 0.114 | 0.0995 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 4.48 | 20.0 |
| BC14044 | Barium, Total | mg/L | 0.0000283 | 0.00100 | 0.100 | 0.121 | 0.123 | 0.104 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.64 | 20.0 |
| BC14044 | Beryllium, Total | mg/L | 0.0000354 | 0.000880 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Boron, Total | mg/L | -0.00607 | 0.0650 | 1.00 | 1.11 | 1.11 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Cadmium, Total | mg/L | -0.0000044 | 0.000147 | 0.100 | 0.100 | 0.0995 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.501 | 20.0 |
| BC14044 | Calcium, Total | mg/L | -0.0101 | 0.152 | 5.00 | 131 | 134 | 4.72 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 2.26 | 20.0 |
| BC14524 | Chloride | mg/L | -0.000301 | 1.00 | 10.0 | 24.8 | 24.7 | 10.0 | 9.00 to 11.0 | 87.0 | 80.0 to 120 | 0.404 | 20.0 |
| BC14044 | Chromium, Total | mg/L | 0.0000345 | 0.000440 | 0.100 | 0.0992 | 0.0997 | 0.100 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.503 | 20.0 |
| BC14044 | Cobalt, Total | mg/L | 0.0000114 | 0.000147 | 0.100 | 0.0985 | 0.0987 | 0.101 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.203 | 20.0 |
| BC14524 | Fluoride | mg/L | -0.0255 | 0.125 | 2.50 | 2.83 | 2.85 | 2.72 | 2.25 to 2.75 | 107 | 80.0 to 120 | 0.704 | 20.0 |
| BC14044 | Iron, Total | mg/L | 0.000327 | 0.0176 | 0.2 | 4.42 | 4.46 | 0.203 | 0.170 to 0.230 | 35.0 | 70.0 to 130 | 0.901 | 20.0 |
| BC14044 | Lead, Total | mg/L | 0.0000136 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Lithium, Total | mg/L | -0.000168 | 0.0154 | 0.200 | 0.269 | 0.267 | 0.221 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.746 | 20.0 |
| BC14044 | Magnesium, Total | mg/L | 0.000556 | 0.0462 | 5.00 | 54.8 | 54.9 | 5.25 | 4.25 to 5.75 | 44.0 | 70.0 to 130 | 0.182 | 20.0 |
| BC14044 | Manganese, Total | mg/L | 0.0000255 | 0.00033 | 0.100 | 1.08 | 1.09 | 0.106 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.922 | 20.0 |
| BC14044 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00369 | 0.00357 | 0.00369 | 0.00340 to 0.00460 | 92.2 | 70.0 to 130 | 3.31 | 20.0 |
| BC14044 | Molybdenum, Total | mg/L | 0.0000062 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Potassium, Total | mg/L | -0.0109 | 0.367 | 10.0 | 12.6 | 12.6 | 10.3 | 8.50 to 11.5 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Selenium, Total | mg/L | 0.0000458 | 0.00100 | 0.100 | 0.104 | 0.105 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14044 | Silicon, Total | mg/L | 0.000557 | 0.0440 | 1.00 | 11.8 | 11.8 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Sodium, Total | mg/L | 0.00992 | 0.0660 | 5.00 | 42.4 | 42.3 | 5.39 | 4.25 to 5.75 | 124 | 70.0 to 130 | 0.236 | 20.0 |
| BC14044 | Sulfate | mg/L | 0.0313 | 2.0 | 640 | 1050 | 1020 | 19.4 | 18.0 to 22.0 | 107 | 80.0 to 120 | 2.90 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/27/22 12:30

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond Field Blank-4

Laboratory ID Number: BC14043

| Sample | Analysis | Units | MB | MB | | | | MSD | Standard | | Rec | | Prec | Limit | |
|---------|----------------------|-------|-----------|----------|-------|-------|----------|--------|-----------------|-----|-------|-------------|------|-------|------|
| | | | | Limit | Spike | MS | Standard | | Limit | Rec | Limit | Prec | | | |
| BC14044 | Thallium, Total | mg/L | 0.0000174 | 0.000147 | 0.100 | 0.103 | 0.106 | 0.0998 | 0.0850 to 0.115 | | 103 | 70.0 to 130 | | 2.87 | 20.0 |
| BC14044 | Total Organic Carbon | mg/L | 0.225 | 1.00 | 10.0 | 11.4 | 10.8 | 25.7 | | | 102 | 80.0 to 120 | | 5.41 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/27/22 12:30

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond Field Blank-4

Laboratory ID Number: BC14043

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14044 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.09 | 0.045 | 1.87 | 1.80 to 2.20 | 104 | 90.0 to 110 | 0.00 | 15.0 |
| BC14042 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 312 | 50.0 | 40.0 to 60.0 | | | 2.27 | 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-42H

Location Code: WMWGORAP
Collected: 7/27/22 14:07
Customer ID:
Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14044

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/2/22 11:39 | 8/9/22 12:24 | | 1.015 | 0.0500 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/2/22 11:39 | 8/9/22 13:55 | | 10.15 | 133 | mg/L | 0.70035 | 4.06 | RA |
| * Iron, Total | 8/2/22 11:39 | 8/9/22 13:55 | | 10.15 | 4.35 | mg/L | 0.08120 | 0.406 | RA |
| * Lithium, Total | 8/2/22 11:39 | 8/9/22 12:24 | | 1.015 | 0.0350 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/2/22 11:39 | 8/9/22 13:55 | | 10.15 | 52.6 | mg/L | 0.21315 | 4.06 | RA |
| Silica, Total (calc.) | 8/2/22 11:39 | 8/9/22 12:24 | | 1 | 23.1 | mg/L | | | |
| Silicon, Total | 8/2/22 11:39 | 8/9/22 12:24 | | 1.015 | 10.8 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/2/22 11:39 | 8/9/22 12:24 | | 1.015 | 36.2 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 8/3/22 14:40 | 8/10/22 14:57 | | 1.015 | 0.0524 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/3/22 14:40 | 8/12/22 11:39 | | 10.15 | 158 | mg/L | 0.70035 | 4.06 | RA |
| * Iron, Dissolved | 8/3/22 14:40 | 8/10/22 14:57 | | 1.015 | 3.80 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 14:40 | 8/10/22 14:57 | | 1.015 | 0.0342 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 14:40 | 8/12/22 11:39 | | 10.15 | 58.9 | mg/L | 0.21315 | 4.06 | RA |
| Silica, Dissolved (calc.) | 8/3/22 14:40 | 8/10/22 14:57 | | 1 | 22.7 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 14:40 | 8/10/22 14:57 | | 1.015 | 10.6 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 14:40 | 8/10/22 14:57 | | 1.015 | 35.5 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | 0.00938 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | 0.0238 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | 0.000306 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | 0.000429 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | 0.982 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | 0.00131 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | 2.15 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-42H

Location Code: WMWGORAP

Collected: 7/27/22 14:07

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14044

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/2/22 11:39 | 8/3/22 15:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | 0.00897 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | 0.0228 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | 0.000239 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | 0.000408 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | 0.985 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | 0.00126 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | 2.13 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/3/22 14:40 | 8/3/22 19:51 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 15:43 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 17:20 | 7/28/22 17:20 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 213 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/2/22 12:20 | 8/3/22 13:03 | | 1 | 728 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 212 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 1.09 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 12:02 | 8/4/22 12:02 | | 1 | 1.15 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-42H

Location Code: WMWGORAP

Collected: 7/27/22 14:07

Customer ID:

Submittal Date: 7/28/22 09:49

Laboratory ID Number: BC14044

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:34 | 8/8/22 10:34 | | 1 | 9.12 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:12 | 8/8/22 14:12 | | 1 | 0.116 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 10:59 | 8/4/22 10:59 | | 32 | 363 | mg/L | 19.2 | 64 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/27/22 14:04 | 7/27/22 14:04 | | | 947.31 | uS/cm | | | FA |
| pH | 7/27/22 14:04 | 7/27/22 14:04 | | | 6.59 | SU | | | FA |
| Temperature | 7/27/22 14:04 | 7/27/22 14:04 | | | 19.35 | C | | | FA |
| Turbidity | 7/27/22 14:04 | 7/27/22 14:04 | | | 4.25 | NTU | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 7/27/22 14:07
Customer ID:
Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-42H

Laboratory ID Number: BC14044

| Sample | Analysis | Units | MB | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|--------|-----------------|-------|-------------|-------|------|-------|
| | | | | Limit | | | | | Standard | Limit | Rec | Limit | | |
| BC14044 | Aluminum, Dissolved | mg/L | 0.000232 | 0.010 | 0.100 | 0.103 | 0.106 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 | |
| BC14044 | Aluminum, Total | mg/L | 0.00135 | 0.010 | 0.100 | 0.107 | 0.108 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 | |
| BC14044 | Antimony, Dissolved | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0916 | 0.0935 | 0.0877 | 0.0850 to 0.115 | 91.6 | 70.0 to 130 | 2.05 | 20.0 | |
| BC14044 | Antimony, Total | mg/L | 0.000253 | 0.00100 | 0.100 | 0.0959 | 0.0965 | 0.0938 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 0.624 | 20.0 | |
| BC14044 | Arsenic, Dissolved | mg/L | -0.0000181 | 0.000176 | 0.100 | 0.112 | 0.113 | 0.0966 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.889 | 20.0 | |
| BC14044 | Arsenic, Total | mg/L | -0.0000103 | 0.000176 | 0.100 | 0.109 | 0.114 | 0.0995 | 0.0850 to 0.115 | 99.6 | 70.0 to 130 | 4.48 | 20.0 | |
| BC14044 | Barium, Dissolved | mg/L | 0.0000705 | 0.00100 | 0.100 | 0.123 | 0.123 | 0.0980 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14044 | Barium, Total | mg/L | 0.0000283 | 0.00100 | 0.100 | 0.121 | 0.123 | 0.104 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.64 | 20.0 | |
| BC14044 | Beryllium, Dissolved | mg/L | 0.0000349 | 0.000880 | 0.100 | 0.100 | 0.108 | 0.0992 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 7.69 | 20.0 | |
| BC14044 | Beryllium, Total | mg/L | 0.0000354 | 0.000880 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14044 | Boron, Dissolved | mg/L | -0.00204 | 0.0650 | 1.00 | 1.08 | 1.08 | 0.992 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14044 | Boron, Total | mg/L | -0.00607 | 0.0650 | 1.00 | 1.11 | 1.11 | 1.03 | 0.850 to 1.15 | 106 | 70.0 to 130 | 0.00 | 20.0 | |
| BC14044 | Cadmium, Dissolved | mg/L | 0.0000092 | 0.000147 | 0.100 | 0.0989 | 0.100 | 0.0979 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 1.11 | 20.0 | |
| BC14044 | Cadmium, Total | mg/L | -0.0000044 | 0.000147 | 0.100 | 0.100 | 0.0995 | 0.102 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.501 | 20.0 | |
| BC14044 | Calcium, Dissolved | mg/L | -0.00812 | 0.152 | 5.00 | 170 | 181 | 4.57 | 4.25 to 5.75 | 240 | 70.0 to 130 | 6.27 | 20.0 | |
| BC14044 | Calcium, Total | mg/L | -0.0101 | 0.152 | 5.00 | 131 | 134 | 4.72 | 4.25 to 5.75 | -40.0 | 70.0 to 130 | 2.26 | 20.0 | |
| BC14524 | Chloride | mg/L | -0.000301 | 1.00 | 10.0 | 24.8 | 24.7 | 10.0 | 9.00 to 11.0 | 87.0 | 80.0 to 120 | 0.404 | 20.0 | |
| BC14044 | Chromium, Dissolved | mg/L | 0.000043 | 0.000440 | 0.100 | 0.0993 | 0.100 | 0.0994 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 0.702 | 20.0 | |
| BC14044 | Chromium, Total | mg/L | 0.0000345 | 0.000440 | 0.100 | 0.0992 | 0.0997 | 0.100 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 0.503 | 20.0 | |
| BC14044 | Cobalt, Dissolved | mg/L | 0.0000026 | 0.000147 | 0.100 | 0.0980 | 0.0989 | 0.101 | 0.0850 to 0.115 | 97.6 | 70.0 to 130 | 0.914 | 20.0 | |
| BC14044 | Cobalt, Total | mg/L | 0.0000114 | 0.000147 | 0.100 | 0.0985 | 0.0987 | 0.101 | 0.0850 to 0.115 | 98.1 | 70.0 to 130 | 0.203 | 20.0 | |
| BC14524 | Fluoride | mg/L | -0.0255 | 0.125 | 2.50 | 2.83 | 2.85 | 2.72 | 2.25 to 2.75 | 107 | 80.0 to 120 | 0.704 | 20.0 | |
| BC14044 | Iron, Dissolved | mg/L | 0.000223 | 0.0176 | 0.2 | 3.96 | 3.94 | 0.197 | 0.170 to 0.230 | 80.0 | 70.0 to 130 | 0.506 | 20.0 | |
| BC14044 | Iron, Total | mg/L | 0.000327 | 0.0176 | 0.2 | 4.42 | 4.46 | 0.203 | 0.170 to 0.230 | 35.0 | 70.0 to 130 | 0.901 | 20.0 | |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 14:07

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-42H

Laboratory ID Number: BC14044

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC14044 | Lead, Dissolved | mg/L | 0.0000206 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14044 | Lead, Total | mg/L | 0.0000136 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Lithium, Dissolved | mg/L | -0.000311 | 0.0154 | 0.200 | 0.259 | 0.254 | 0.215 | 0.170 to 0.230 | 112 | 70.0 to 130 | 1.95 | 20.0 |
| BC14044 | Lithium, Total | mg/L | -0.000168 | 0.0154 | 0.200 | 0.269 | 0.267 | 0.221 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.746 | 20.0 |
| BC14044 | Magnesium, Dissolved | mg/L | 0.00369 | 0.0462 | 5.00 | 67.3 | 71.3 | 5.21 | 4.25 to 5.75 | 168 | 70.0 to 130 | 5.77 | 20.0 |
| BC14044 | Magnesium, Total | mg/L | 0.000556 | 0.0462 | 5.00 | 54.8 | 54.9 | 5.25 | 4.25 to 5.75 | 44.0 | 70.0 to 130 | 0.182 | 20.0 |
| BC14044 | Manganese, Dissolved | mg/L | 0.0000059 | 0.00033 | 0.100 | 1.08 | 1.07 | 0.106 | 0.0850 to 0.115 | 95.0 | 70.0 to 130 | 0.930 | 20.0 |
| BC14044 | Manganese, Total | mg/L | 0.0000255 | 0.00033 | 0.100 | 1.08 | 1.09 | 0.106 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.922 | 20.0 |
| BC14044 | Mercury, Total by CVAA | mg/L | 4.280E-06 | 0.000500 | 0.004 | 0.00369 | 0.00357 | 0.00369 | 0.00340 to 0.00460 | 92.2 | 70.0 to 130 | 3.31 | 20.0 |
| BC14044 | Molybdenum, Dissolved | mg/L | 0.0000047 | 0.0002 | 0.100 | 0.100 | 0.102 | 0.0988 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 1.98 | 20.0 |
| BC14044 | Molybdenum, Total | mg/L | 0.0000062 | 0.0002 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Potassium, Dissolved | mg/L | 0.0233 | 0.367 | 10.0 | 12.7 | 12.4 | 10.7 | 8.50 to 11.5 | 106 | 70.0 to 130 | 2.39 | 20.0 |
| BC14044 | Potassium, Total | mg/L | -0.0109 | 0.367 | 10.0 | 12.6 | 12.6 | 10.3 | 8.50 to 11.5 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Selenium, Dissolved | mg/L | -0.0000054 | 0.00100 | 0.100 | 0.102 | 0.104 | 0.0992 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 1.94 | 20.0 |
| BC14044 | Selenium, Total | mg/L | 0.0000458 | 0.00100 | 0.100 | 0.104 | 0.105 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14044 | Silicon, Dissolved | mg/L | -0.000199 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Silicon, Total | mg/L | 0.000557 | 0.0440 | 1.00 | 11.8 | 11.8 | 1.02 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14044 | Sodium, Dissolved | mg/L | 0.00304 | 0.0660 | 5.00 | 40.8 | 40.3 | 5.27 | 4.25 to 5.75 | 106 | 70.0 to 130 | 1.23 | 20.0 |
| BC14044 | Sodium, Total | mg/L | 0.00992 | 0.0660 | 5.00 | 42.4 | 42.3 | 5.39 | 4.25 to 5.75 | 124 | 70.0 to 130 | 0.236 | 20.0 |
| BC14044 | Sulfate | mg/L | 0.0313 | 2.0 | 640 | 1050 | 1020 | 19.4 | 18.0 to 22.0 | 107 | 80.0 to 120 | 2.90 | 20.0 |
| BC14044 | Thallium, Dissolved | mg/L | 0.000016 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14044 | Thallium, Total | mg/L | 0.0000174 | 0.000147 | 0.100 | 0.103 | 0.106 | 0.0998 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.87 | 20.0 |
| BC14044 | Total Organic Carbon | mg/L | 0.225 | 1.00 | 10.0 | 11.4 | 10.8 | 25.7 | | 102 | 80.0 to 120 | 5.41 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/27/22 14:07

Customer ID:

Delivery Date: 7/28/22 09:49

Description: Gorgas Ash Pond - MW-42H

Laboratory ID Number: BC14044

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC14534 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 60.2 | 50.9 | 45.0 to 55.0 | | | 1.48 | 10.0 |
| BC14044 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.09 | 0.045 | 1.87 | 1.80 to 2.20 | 104 | 90.0 to 110 | 0.00 | 15.0 |
| BC14030 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 306 | 52.0 | 40.0 to 60.0 | | | 0.00 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16D

Location Code: WMWGORAP
Collected: 8/2/22 09:48
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14520

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 10:39 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 10:39 | | 1.015 | 33.8 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 10:39 | | 1.015 | 0.267 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 10:39 | | 1.015 | 0.0343 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/9/22 06:35 | 8/9/22 10:39 | | 1.015 | 12.3 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 10:39 | | 1 | 23.5 | mg/L | | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 10:39 | | 1.015 | 11.0 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/9/22 06:35 | 8/9/22 10:39 | | 1.015 | 28.9 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 13:14 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 13:14 | | 1.015 | 34.3 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 13:14 | | 1.015 | 0.198 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 13:14 | | 1.015 | 0.0323 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 13:14 | | 1.015 | 12.0 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 13:14 | | 1 | 22.9 | mg/L | | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 13:14 | | 1.015 | 10.7 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/15/22 13:14 | | 1.015 | 28.8 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | 0.0327 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | 0.355 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | 0.000402 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | 0.0119 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | 0.000984 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | 1.50 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16D

Location Code: WMWGORAP

Collected: 8/2/22 09:48

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14520

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 13:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | 0.339 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | 0.000311 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | 0.0112 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | 0.00104 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | 1.47 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 09:22 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 19:56 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:33 | 8/10/22 13:33 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 177 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 210 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 176 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 1.34 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/9/22 19:37 | 8/9/22 19:37 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16D

Location Code: WMWGORAP

Collected: 8/2/22 09:48

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14520

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:36 | 8/8/22 10:36 | | 1 | 3.65 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:13 | 8/8/22 14:13 | | 1 | 0.112 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:14 | 8/5/22 08:14 | | 1 | 15.6 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/2/22 09:45 | 8/2/22 09:45 | | | 414.33 | uS/cm | | | FA |
| pH | 8/2/22 09:45 | 8/2/22 09:45 | | | 7.49 | SU | | | FA |
| Temperature | 8/2/22 09:45 | 8/2/22 09:45 | | | 20.80 | C | | | FA |
| Turbidity | 8/2/22 09:45 | 8/2/22 09:45 | | | 4.4 | NTU | | | FA |
| Sulfide | 8/2/22 09:45 | 8/2/22 09:45 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 09:48

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: BC14520

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.110 | 0.111 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.905 | 20.0 |
| BC14529 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.120 | 0.118 | 0.109 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.68 | 20.0 |
| BC14529 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0994 | 0.0983 | 0.0923 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.11 | 20.0 |
| BC14529 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.107 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14529 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.206 | 0.205 | 0.100 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.207 | 0.206 | 0.103 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.484 | 20.0 |
| BC14529 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.163 | 0.162 | 0.0974 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.615 | 20.0 |
| BC14529 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.177 | 0.173 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.29 | 20.0 |
| BC14529 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.85 | 1.85 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.85 | 1.86 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.539 | 20.0 |
| BC14529 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0980 | 0.101 | 0.0995 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.02 | 20.0 |
| BC14529 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14529 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 6.16 | 6.13 | 5.11 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.488 | 20.0 |
| BC14529 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 6.62 | 6.70 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.20 | 20.0 |
| BC14524 | Chloride | mg/L | -0.000301 | 1.00 | 10.0 | 24.8 | 24.7 | 10.0 | 9.00 to 11.0 | 87.0 | 80.0 to 120 | 0.404 | 20.0 |
| BC14529 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14529 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.108 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14524 | Fluoride | mg/L | -0.0255 | 0.125 | 2.50 | 2.83 | 2.85 | 2.72 | 2.25 to 2.75 | 107 | 80.0 to 120 | 0.704 | 20.0 |
| BC14529 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.206 | 0.205 | 0.199 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.220 | 0.221 | 0.207 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.454 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 09:48

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: BC14520

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.270 | 0.270 | 0.204 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.308 | 0.311 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.969 | 20.0 |
| BC14529 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 5.35 | 5.36 | 5.15 | 4.25 to 5.75 | 99.7 | 70.0 to 130 | 0.187 | 20.0 |
| BC14529 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 5.87 | 5.95 | 5.21 | 4.25 to 5.75 | 109 | 70.0 to 130 | 1.35 | 20.0 |
| BC14529 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.957 | 20.0 |
| BC14529 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00406 | 0.00408 | 0.00408 | 0.00340 to 0.00460 | 102 | 70.0 to 130 | 0.491 | 20.0 |
| BC14529 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.111 | 0.109 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.82 | 20.0 |
| BC14529 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.114 | 0.113 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.881 | 20.0 |
| BC14529 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 10.5 | 10.6 | 9.98 | 8.50 to 11.5 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 10.8 | 10.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14529 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.107 | 0.105 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14529 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 5.64 | 5.65 | 1.02 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.177 | 20.0 |
| BC14529 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 5.89 | 5.95 | 1.03 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.01 | 20.0 |
| BC14529 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 227 | 231 | 5.10 | 4.25 to 5.75 | -160 | 70.0 to 130 | 1.75 | 20.0 |
| BC14529 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 234 | 240 | 5.06 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 2.53 | 20.0 |
| BC14529 | Sulfate | mg/L | -0.400 | 2.0 | 400 | 635 | 641 | 19.5 | 18.0 to 22.0 | 107 | 80.0 to 120 | 0.940 | 20.0 |
| BC14529 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.0987 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 0.404 | 20.0 |
| BC14529 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.6 | 11.7 | 25.0 | | 97.6 | 80.0 to 120 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 09:48

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-16D

Laboratory ID Number: BC14520

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14534 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 60.2 | 50.9 | 45.0 to 55.0 | | | 1.48 | 10.0 |
| BC14529 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.03 | 0.200 | 2.00 | 2.22 | 0.020 | 2.17 | 1.80 to 2.20 | 111 | 90.0 to 110 | 0.00 | 15.0 |
| BC14528 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 584 | 45.0 | 40.0 to 60.0 | | | 1.70 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16S

Location Code: WMWGORAP
Collected: 8/2/22 10:57
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14521

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 10:45 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 8/9/22 06:37 | 8/11/22 10:13 | | 10.15 | 141 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 10:45 | | 1.015 | 0.0671 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 10:45 | | 1.015 | 0.140 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/9/22 10:45 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 10:45 | | 1 | 4.77 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 10:45 | | 1.015 | 2.23 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/11/22 10:13 | | 10.15 | 187 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 13:21 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/12/22 13:22 | | 10.15 | 104 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 13:21 | | 1.015 | 0.0514 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 13:21 | | 1.015 | 0.116 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 13:21 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 13:21 | | 1 | 8.09 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 13:21 | | 1.015 | 3.78 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/12/22 13:22 | | 10.15 | 232 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 17:11 | | 5.075 | 3.60 | mg/L | 0.030450 | 0.05075 | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | 0.00110 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | 0.410 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | 0.000531 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | 0.000299 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | 0.000128 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | 0.000306 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | 0.0446 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | 5.90 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16S

Location Code: WMWGORAP
Collected: 8/2/22 10:57
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14521

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|----|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | 0.000526 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 13:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 13:04 | | 5.075 | 4.04 | mg/L | 0.030450 | 0.05075 | |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | 0.00127 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | 0.339 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | 0.000452 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | 0.000214 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | 0.000125 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | 0.0417 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | 5.44 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | 0.000684 | mg/L | 0.000508 | 0.001015 | J |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 09:29 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:00 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:35 | 8/10/22 13:35 | | 1 | 0.403 | mg/L as N | 0.20 | 0.3 | |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 758 | mg/L | | 0.1 | AI |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 679 | mg/L | | 178.6 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/9/22 19:55 | 8/9/22 19:55 | | 1 | 2.71 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500CI E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:37 | 8/8/22 10:37 | | 1 | 3.82 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:14 | 8/8/22 14:14 | | 1 | 0.114 | mg/L | 0.06 | 0.125 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-16S

Location Code: WMWGORAP

Collected: 8/2/22 10:57

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14521

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|-----|----|----|
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:15 | 8/5/22 08:15 | | 1 | 7.43 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/2/22 10:54 | 8/2/22 10:54 | | | 3393 | uS/cm | | | FA |
| pH | 8/2/22 10:54 | 8/2/22 10:54 | | | 12.53 | SU | | | FA |
| Temperature | 8/2/22 10:54 | 8/2/22 10:54 | | | 20.16 | C | | | FA |
| Turbidity | 8/2/22 10:54 | 8/2/22 10:54 | | | 4.16 | NTU | | | FA |
| Sulfide | 8/2/22 10:54 | 8/2/22 10:54 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 8/2/22 10:57
Customer ID:
Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-16S

Laboratory ID Number: BC14521

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.110 | 0.111 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.905 | 20.0 |
| BC14529 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.120 | 0.118 | 0.109 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.68 | 20.0 |
| BC14529 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0994 | 0.0983 | 0.0923 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.11 | 20.0 |
| BC14529 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.107 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14529 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.206 | 0.205 | 0.100 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.207 | 0.206 | 0.103 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.484 | 20.0 |
| BC14529 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.163 | 0.162 | 0.0974 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.615 | 20.0 |
| BC14529 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.177 | 0.173 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.29 | 20.0 |
| BC14529 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.85 | 1.85 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.85 | 1.86 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.539 | 20.0 |
| BC14529 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0980 | 0.101 | 0.0995 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.02 | 20.0 |
| BC14529 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14529 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 6.16 | 6.13 | 5.11 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.488 | 20.0 |
| BC14529 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 6.62 | 6.70 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.20 | 20.0 |
| BC14524 | Chloride | mg/L | -0.000301 | 1.00 | 10.0 | 24.8 | 24.7 | 10.0 | 9.00 to 11.0 | 87.0 | 80.0 to 120 | 0.404 | 20.0 |
| BC14529 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14529 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.108 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14524 | Fluoride | mg/L | -0.0255 | 0.125 | 2.50 | 2.83 | 2.85 | 2.72 | 2.25 to 2.75 | 107 | 80.0 to 120 | 0.704 | 20.0 |
| BC14529 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.206 | 0.205 | 0.199 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.220 | 0.221 | 0.207 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.454 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 10:57

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-16S

Laboratory ID Number: BC14521

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.270 | 0.270 | 0.204 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.308 | 0.311 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.969 | 20.0 |
| BC14529 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 5.35 | 5.36 | 5.15 | 4.25 to 5.75 | 99.7 | 70.0 to 130 | 0.187 | 20.0 |
| BC14529 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 5.87 | 5.95 | 5.21 | 4.25 to 5.75 | 109 | 70.0 to 130 | 1.35 | 20.0 |
| BC14529 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.957 | 20.0 |
| BC14529 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00406 | 0.00408 | 0.00408 | 0.00340 to 0.00460 | 102 | 70.0 to 130 | 0.491 | 20.0 |
| BC14529 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.111 | 0.109 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.82 | 20.0 |
| BC14529 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.114 | 0.113 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.881 | 20.0 |
| BC14529 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 10.5 | 10.6 | 9.98 | 8.50 to 11.5 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 10.8 | 10.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14529 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.107 | 0.105 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14529 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 5.64 | 5.65 | 1.02 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.177 | 20.0 |
| BC14529 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 5.89 | 5.95 | 1.03 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.01 | 20.0 |
| BC14529 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 227 | 231 | 5.10 | 4.25 to 5.75 | -160 | 70.0 to 130 | 1.75 | 20.0 |
| BC14529 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 234 | 240 | 5.06 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 2.53 | 20.0 |
| BC14529 | Sulfate | mg/L | -0.400 | 2.0 | 400 | 635 | 641 | 19.5 | 18.0 to 22.0 | 107 | 80.0 to 120 | 0.940 | 20.0 |
| BC14529 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.0987 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 0.404 | 20.0 |
| BC14529 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.6 | 11.7 | 25.0 | | 97.6 | 80.0 to 120 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 10:57

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-16S

Laboratory ID Number: BC14521

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14534 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 60.2 | 50.9 | 45.0 to 55.0 | | | 1.48 | 10.0 |
| BC14529 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.03 | 0.200 | 2.00 | 2.22 | 0.020 | 2.17 | 1.80 to 2.20 | 111 | 90.0 to 110 | 0.00 | 15.0 |
| BC14528 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 584 | 45.0 | 40.0 to 60.0 | | | 1.70 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals. When Alkalinity was performed, the pH reading was above 12SU. Therefore, bicarbonate and carbonate calculations are invalid and not reported.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15

Location Code: WMWGORAP
Collected: 8/2/22 12:41
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14522

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 10:52 | | 1.015 | 0.0426 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 10:52 | | 1.015 | 3.31 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 10:52 | | 1.015 | 0.0216 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 10:52 | | 1.015 | 0.529 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/9/22 06:35 | 8/9/22 10:52 | | 1.015 | 0.542 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/9/22 06:37 | 8/11/22 10:16 | | 1 | 95.4 | mg/L | | | | |
| Silicon, Total | 8/9/22 06:37 | 8/11/22 10:16 | | 10.15 | 44.6 | mg/L | 0.2030 | 2.5375 | | |
| * Sodium, Total | 8/9/22 06:37 | 8/11/22 10:16 | | 10.15 | 248 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 13:27 | | 1.015 | 0.0404 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 13:27 | | 1.015 | 3.66 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 13:27 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 13:27 | | 1.015 | 0.401 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 13:27 | | 1.015 | 0.0697 | mg/L | 0.021315 | 0.406 | J | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/12/22 13:29 | | 1 | 102 | mg/L | | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/12/22 13:29 | | 10.15 | 47.6 | mg/L | 0.2030 | 2.5375 | | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/12/22 13:29 | | 10.15 | 284 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | 0.000663 | mg/L | 0.000508 | 0.001015 | J | |
| * Aluminum, Total | 8/9/22 06:37 | 8/12/22 10:42 | | 5.075 | 1.29 | mg/L | 0.030450 | 0.05075 | | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | 0.0104 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | 0.131 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | 0.000913 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | 0.000330 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | 0.0642 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | 8.83 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15

Location Code: WMWGORAP
Collected: 8/2/22 12:41
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14522

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 13:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | 0.000694 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | 0.922 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | 0.00983 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | 0.141 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | 0.000397 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | 0.0580 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | 7.25 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 09:36 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:03 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:37 | 8/10/22 13:37 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 553 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 592 | mg/L | | 100 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 3.33 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 212 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/9/22 20:19 | 8/9/22 20:19 | | 1 | 15.8 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15

Location Code: WMWGORAP

Collected: 8/2/22 12:41

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14522

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:38 | 8/8/22 10:38 | | 1 | 4.36 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:16 | 8/8/22 14:16 | | 1 | 0.373 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:16 | 8/5/22 08:16 | | 1 | 9.11 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/2/22 12:38 | 8/2/22 12:38 | | | 1866.78 | uS/cm | | | FA |
| pH | 8/2/22 12:38 | 8/2/22 12:38 | | | 11.84 | SU | | | FA |
| Temperature | 8/2/22 12:38 | 8/2/22 12:38 | | | 21.49 | C | | | FA |
| Turbidity | 8/2/22 12:38 | 8/2/22 12:38 | | | 2.3 | NTU | | | FA |
| Sulfide | 8/2/22 12:38 | 8/2/22 12:38 | | | 1.0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 12:41

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: BC14522

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.110 | 0.111 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.905 | 20.0 |
| BC14529 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.120 | 0.118 | 0.109 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.68 | 20.0 |
| BC14529 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0994 | 0.0983 | 0.0923 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.11 | 20.0 |
| BC14529 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.107 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14529 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.206 | 0.205 | 0.100 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.207 | 0.206 | 0.103 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.484 | 20.0 |
| BC14529 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.163 | 0.162 | 0.0974 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.615 | 20.0 |
| BC14529 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.177 | 0.173 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.29 | 20.0 |
| BC14529 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.85 | 1.85 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.85 | 1.86 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.539 | 20.0 |
| BC14529 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0980 | 0.101 | 0.0995 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.02 | 20.0 |
| BC14529 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14529 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 6.16 | 6.13 | 5.11 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.488 | 20.0 |
| BC14529 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 6.62 | 6.70 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.20 | 20.0 |
| BC14524 | Chloride | mg/L | -0.000301 | 1.00 | 10.0 | 24.8 | 24.7 | 10.0 | 9.00 to 11.0 | 87.0 | 80.0 to 120 | 0.404 | 20.0 |
| BC14529 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14529 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.108 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14524 | Fluoride | mg/L | -0.0255 | 0.125 | 2.50 | 2.83 | 2.85 | 2.72 | 2.25 to 2.75 | 107 | 80.0 to 120 | 0.704 | 20.0 |
| BC14529 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.206 | 0.205 | 0.199 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.220 | 0.221 | 0.207 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.454 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 12:41

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: BC14522

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.270 | 0.270 | 0.204 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.308 | 0.311 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.969 | 20.0 |
| BC14529 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 5.35 | 5.36 | 5.15 | 4.25 to 5.75 | 99.7 | 70.0 to 130 | 0.187 | 20.0 |
| BC14529 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 5.87 | 5.95 | 5.21 | 4.25 to 5.75 | 109 | 70.0 to 130 | 1.35 | 20.0 |
| BC14529 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.957 | 20.0 |
| BC14529 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00406 | 0.00408 | 0.00408 | 0.00340 to 0.00460 | 102 | 70.0 to 130 | 0.491 | 20.0 |
| BC14529 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.111 | 0.109 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.82 | 20.0 |
| BC14529 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.114 | 0.113 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.881 | 20.0 |
| BC14529 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 10.5 | 10.6 | 9.98 | 8.50 to 11.5 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 10.8 | 10.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14529 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.107 | 0.105 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14529 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 5.64 | 5.65 | 1.02 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.177 | 20.0 |
| BC14529 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 5.89 | 5.95 | 1.03 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.01 | 20.0 |
| BC14529 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 227 | 231 | 5.10 | 4.25 to 5.75 | -160 | 70.0 to 130 | 1.75 | 20.0 |
| BC14529 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 234 | 240 | 5.06 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 2.53 | 20.0 |
| BC14529 | Sulfate | mg/L | -0.400 | 2.0 | 400 | 635 | 641 | 19.5 | 18.0 to 22.0 | 107 | 80.0 to 120 | 0.940 | 20.0 |
| BC14529 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.0987 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 0.404 | 20.0 |
| BC14529 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.6 | 11.7 | 25.0 | | 97.6 | 80.0 to 120 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 12:41

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-15

Laboratory ID Number: BC14522

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC14536 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 238 | 50.2 | 45.0 to 55.0 | | | 0.837 | 10.0 |
| BC14529 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.03 | 0.200 | 2.00 | 2.22 | 0.020 | 2.17 | 1.80 to 2.20 | 111 | 90.0 to 110 | 0.00 | 15.0 |
| BC14528 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 584 | 45.0 | 40.0 to 60.0 | | | 1.70 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15V

Location Code: WMWGORAP
Collected: 8/2/22 14:22
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14523

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 10:59 | | 1.015 | 0.0649 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 10:59 | | 1.015 | 22.2 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 10:59 | | 1.015 | 0.0245 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 10:59 | | 1.015 | 0.0960 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/9/22 10:59 | | 1.015 | 6.18 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 10:59 | | 1 | 17.2 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 10:59 | | 1.015 | 8.04 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/11/22 10:19 | | 10.15 | 248 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 13:33 | | 1.015 | 0.0589 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 13:33 | | 1.015 | 18.5 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 13:33 | | 1.015 | 0.0139 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 13:33 | | 1.015 | 0.0797 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 13:33 | | 1.015 | 5.21 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 13:33 | | 1 | 16.7 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 13:33 | | 1.015 | 7.82 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/12/22 13:35 | | 10.15 | 288 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | 0.00143 | mg/L | 0.000508 | 0.001015 | |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | 0.0120 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | 0.00733 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | 0.253 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | 0.000427 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | 0.0119 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | 0.0295 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | 12.3 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15V

Location Code: WMWGORAP
Collected: 8/2/22 14:22
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14523

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 13:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | 0.00127 | mg/L | 0.000508 | 0.001015 | |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | 0.00640 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | 0.212 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | 0.000314 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | 0.0105 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | 0.0251 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | 10.4 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 09:43 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:07 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:39 | 8/10/22 13:39 | | 1 | 0.788 | mg/L as N | 0.20 | 0.3 | |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 217 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 788 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 212 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 4.68 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/9/22 20:38 | 8/9/22 20:38 | | 1 | 10.6 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-15V

Location Code: WMWGORAP

Collected: 8/2/22 14:22

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14523

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:46 | 8/8/22 10:46 | | 8 | 126 | mg/L | 4.00 | 8 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:17 | 8/8/22 14:17 | | 1 | 0.206 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:28 | 8/5/22 08:28 | | 16 | 218 | mg/L | 9.6 | 32 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/2/22 14:19 | 8/2/22 14:19 | | | 1392.92 | uS/cm | | | FA |
| pH | 8/2/22 14:19 | 8/2/22 14:19 | | | 8.21 | SU | | | FA |
| Temperature | 8/2/22 14:19 | 8/2/22 14:19 | | | 22.46 | C | | | FA |
| Turbidity | 8/2/22 14:19 | 8/2/22 14:19 | | | 1.45 | NTU | | | FA |
| Sulfide | 8/2/22 14:19 | 8/2/22 14:19 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 14:22

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-15V

Laboratory ID Number: BC14523

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.110 | 0.111 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.905 | 20.0 |
| BC14529 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.120 | 0.118 | 0.109 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.68 | 20.0 |
| BC14529 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0994 | 0.0983 | 0.0923 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.11 | 20.0 |
| BC14529 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.107 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14529 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.206 | 0.205 | 0.100 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.207 | 0.206 | 0.103 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.484 | 20.0 |
| BC14529 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.163 | 0.162 | 0.0974 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.615 | 20.0 |
| BC14529 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.177 | 0.173 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.29 | 20.0 |
| BC14529 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.85 | 1.85 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.85 | 1.86 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.539 | 20.0 |
| BC14529 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0980 | 0.101 | 0.0995 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.02 | 20.0 |
| BC14529 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14529 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 6.16 | 6.13 | 5.11 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.488 | 20.0 |
| BC14529 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 6.62 | 6.70 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.20 | 20.0 |
| BC14524 | Chloride | mg/L | -0.000301 | 1.00 | 10.0 | 24.8 | 24.7 | 10.0 | 9.00 to 11.0 | 87.0 | 80.0 to 120 | 0.404 | 20.0 |
| BC14529 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14529 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.108 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14524 | Fluoride | mg/L | -0.0255 | 0.125 | 2.50 | 2.83 | 2.85 | 2.72 | 2.25 to 2.75 | 107 | 80.0 to 120 | 0.704 | 20.0 |
| BC14529 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.206 | 0.205 | 0.199 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.220 | 0.221 | 0.207 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.454 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 14:22

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-15V

Laboratory ID Number: BC14523

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.270 | 0.270 | 0.204 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.308 | 0.311 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.969 | 20.0 |
| BC14529 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 5.35 | 5.36 | 5.15 | 4.25 to 5.75 | 99.7 | 70.0 to 130 | 0.187 | 20.0 |
| BC14529 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 5.87 | 5.95 | 5.21 | 4.25 to 5.75 | 109 | 70.0 to 130 | 1.35 | 20.0 |
| BC14529 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.957 | 20.0 |
| BC14529 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00406 | 0.00408 | 0.00408 | 0.00340 to 0.00460 | 102 | 70.0 to 130 | 0.491 | 20.0 |
| BC14529 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.111 | 0.109 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.82 | 20.0 |
| BC14529 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.114 | 0.113 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.881 | 20.0 |
| BC14529 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 10.5 | 10.6 | 9.98 | 8.50 to 11.5 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 10.8 | 10.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14529 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.107 | 0.105 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14529 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 5.64 | 5.65 | 1.02 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.177 | 20.0 |
| BC14529 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 5.89 | 5.95 | 1.03 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.01 | 20.0 |
| BC14529 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 227 | 231 | 5.10 | 4.25 to 5.75 | -160 | 70.0 to 130 | 1.75 | 20.0 |
| BC14529 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 234 | 240 | 5.06 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 2.53 | 20.0 |
| BC14529 | Sulfate | mg/L | -0.400 | 2.0 | 400 | 635 | 641 | 19.5 | 18.0 to 22.0 | 107 | 80.0 to 120 | 0.940 | 20.0 |
| BC14529 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.0987 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 0.404 | 20.0 |
| BC14529 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.6 | 11.7 | 25.0 | | 97.6 | 80.0 to 120 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 14:22

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-15V

Laboratory ID Number: BC14523

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|-----|-------------|-------|------------|
| BC14536 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 238 | 50.2 | 45.0 to 55.0 | | | 0.837 | 10.0 |
| BC14529 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.03 | 0.200 | 2.00 | 2.22 | 0.020 | 2.17 | 1.80 to 2.20 | 111 | 90.0 to 110 | 0.00 | 15.0 |
| BC14528 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 584 | 45.0 | 40.0 to 60.0 | | | 1.70 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-14R

Location Code: WMWGORAP

Collected: 8/3/22 08:35

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14524

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 11:06 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 11:06 | | 1.015 | 35.3 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 11:06 | | 1.015 | 0.622 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 11:06 | | 1.015 | 0.0265 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/9/22 11:06 | | 1.015 | 14.1 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 11:06 | | 1 | 27.8 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 11:06 | | 1.015 | 13.0 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:35 | 8/9/22 11:06 | | 1.015 | 37.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 13:40 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 13:40 | | 1.015 | 34.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 13:40 | | 1.015 | 0.530 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 13:40 | | 1.015 | 0.0234 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 13:40 | | 1.015 | 13.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 13:40 | | 1 | 26.5 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 13:40 | | 1.015 | 12.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/15/22 13:40 | | 1.015 | 38.1 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | 0.0102 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | 0.00142 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | 0.221 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | 0.000306 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | 0.0496 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | 0.000479 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | 2.82 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-14R

Location Code: WMWGORAP
Collected: 8/3/22 08:35
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14524

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 13:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | 0.00118 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | 0.215 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | 0.000251 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | 0.0486 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | 0.000426 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | 2.79 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 09:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:11 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:41 | 8/10/22 13:41 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 176 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 245 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 174 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 2.20 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/9/22 21:00 | 8/9/22 21:00 | | 1 | 1.49 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-14R

Location Code: WMWGORAP

Collected: 8/3/22 08:35

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14524

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:40 | 8/8/22 10:40 | | 1 | 16.1 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:18 | 8/8/22 14:18 | | 1 | 0.145 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:18 | 8/5/22 08:18 | | 1 | 24.7 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/3/22 08:32 | 8/3/22 08:32 | | | 478.01 | uS/cm | | | FA |
| pH | 8/3/22 08:32 | 8/3/22 08:32 | | | 6.44 | SU | | | FA |
| Temperature | 8/3/22 08:32 | 8/3/22 08:32 | | | 18.62 | C | | | FA |
| Turbidity | 8/3/22 08:32 | 8/3/22 08:32 | | | 1.9 | NTU | | | FA |
| Sulfide | 8/3/22 08:32 | 8/3/22 08:32 | | | 1.0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 08:35

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-14R

Laboratory ID Number: BC14524

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.110 | 0.111 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.905 | 20.0 |
| BC14529 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.120 | 0.118 | 0.109 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.68 | 20.0 |
| BC14529 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0994 | 0.0983 | 0.0923 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.11 | 20.0 |
| BC14529 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.107 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14529 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.206 | 0.205 | 0.100 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.207 | 0.206 | 0.103 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.484 | 20.0 |
| BC14529 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.163 | 0.162 | 0.0974 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.615 | 20.0 |
| BC14529 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.177 | 0.173 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.29 | 20.0 |
| BC14529 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.85 | 1.85 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.85 | 1.86 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.539 | 20.0 |
| BC14529 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0980 | 0.101 | 0.0995 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.02 | 20.0 |
| BC14529 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14529 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 6.16 | 6.13 | 5.11 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.488 | 20.0 |
| BC14529 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 6.62 | 6.70 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.20 | 20.0 |
| BC14524 | Chloride | mg/L | -0.000301 | 1.00 | 10.0 | 24.8 | 24.7 | 10.0 | 9.00 to 11.0 | 87.0 | 80.0 to 120 | 0.404 | 20.0 |
| BC14529 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14529 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.108 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14524 | Fluoride | mg/L | -0.0255 | 0.125 | 2.50 | 2.83 | 2.85 | 2.72 | 2.25 to 2.75 | 107 | 80.0 to 120 | 0.704 | 20.0 |
| BC14529 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.206 | 0.205 | 0.199 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.220 | 0.221 | 0.207 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.454 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 08:35

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-14R

Laboratory ID Number: BC14524

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.270 | 0.270 | 0.204 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.308 | 0.311 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.969 | 20.0 |
| BC14529 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 5.35 | 5.36 | 5.15 | 4.25 to 5.75 | 99.7 | 70.0 to 130 | 0.187 | 20.0 |
| BC14529 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 5.87 | 5.95 | 5.21 | 4.25 to 5.75 | 109 | 70.0 to 130 | 1.35 | 20.0 |
| BC14529 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.957 | 20.0 |
| BC14529 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00406 | 0.00408 | 0.00408 | 0.00340 to 0.00460 | 102 | 70.0 to 130 | 0.491 | 20.0 |
| BC14529 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.111 | 0.109 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.82 | 20.0 |
| BC14529 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.114 | 0.113 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.881 | 20.0 |
| BC14529 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 10.5 | 10.6 | 9.98 | 8.50 to 11.5 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 10.8 | 10.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14529 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.107 | 0.105 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14529 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 5.64 | 5.65 | 1.02 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.177 | 20.0 |
| BC14529 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 5.89 | 5.95 | 1.03 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.01 | 20.0 |
| BC14529 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 227 | 231 | 5.10 | 4.25 to 5.75 | -160 | 70.0 to 130 | 1.75 | 20.0 |
| BC14529 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 234 | 240 | 5.06 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 2.53 | 20.0 |
| BC14529 | Sulfate | mg/L | -0.400 | 2.0 | 400 | 635 | 641 | 19.5 | 18.0 to 22.0 | 107 | 80.0 to 120 | 0.940 | 20.0 |
| BC14529 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.0987 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 0.404 | 20.0 |
| BC14529 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.6 | 11.7 | 25.0 | | 97.6 | 80.0 to 120 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 08:35

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-14R

Laboratory ID Number: BC14524

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|------|---------------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14529 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.03 | 0.200 | 2.00 | 2.22 | 0.020 | 2.17 | 1.80 to 2.20 | 111 | 90.0 to 110 | 0.00 | 15.0 |
| BC14528 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 584 | 45.0 | 40.0 to 60.0 | | | 1.70 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-25HA

Location Code: WMWGORAP
Collected: 8/3/22 10:18
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14525

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 11:12 | | 1.015 | 0.150 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 11:12 | | 1.015 | 1.86 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 11:12 | | 1.015 | 0.326 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 11:12 | | 1.015 | 0.0610 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/9/22 11:12 | | 1.015 | 0.718 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 11:12 | | 1 | 15.6 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 11:12 | | 1.015 | 7.27 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/11/22 10:23 | | 10.15 | 375 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 13:46 | | 1.015 | 0.144 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 13:46 | | 1.015 | 1.61 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 13:46 | | 1.015 | 0.0155 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 13:46 | | 1.015 | 0.0511 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 13:46 | | 1.015 | 0.543 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 13:46 | | 1 | 10.7 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 13:46 | | 1.015 | 4.98 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/16/22 11:24 | | 101.5 | 427 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | 0.665 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | 0.0103 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | 0.232 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | 0.000794 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | 0.0000681 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | 0.000206 | mg/L | 0.000068 | 0.000203 | |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | 0.00691 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | 0.00758 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | 1.35 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-25HA

Location Code: WMWGORAP
Collected: 8/3/22 10:18
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14525

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 14:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | 0.0456 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | 0.0102 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | 0.190 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | 0.000316 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | 0.00455 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | 0.00682 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | 1.10 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 09:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:15 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:43 | 8/10/22 13:43 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 637 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 897 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 599 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 38.0 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/9/22 21:20 | 8/9/22 21:20 | | 1 | 16.4 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-25HA

Location Code: WMWGORAP

Collected: 8/3/22 10:18

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14525

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:11 | 8/8/22 11:11 | | 3 | 30.5 | mg/L | 1.50 | 3 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:31 | 8/8/22 14:31 | | 1 | 2.07 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:29 | 8/5/22 08:29 | | 4 | 81.8 | mg/L | 2.4 | 8 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/3/22 10:15 | 8/3/22 10:15 | | | 1426.78 | uS/cm | | | FA |
| pH | 8/3/22 10:15 | 8/3/22 10:15 | | | 8.55 | SU | | | FA |
| Temperature | 8/3/22 10:15 | 8/3/22 10:15 | | | 20.96 | C | | | FA |
| Turbidity | 8/3/22 10:15 | 8/3/22 10:15 | | | 6.26 | NTU | | | FA |
| Sulfide | 8/3/22 10:15 | 8/3/22 10:15 | | | 2.0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 10:18

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-25HA

Laboratory ID Number: BC14525

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.110 | 0.111 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.905 | 20.0 |
| BC14529 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.120 | 0.118 | 0.109 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.68 | 20.0 |
| BC14529 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0994 | 0.0983 | 0.0923 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.11 | 20.0 |
| BC14529 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.107 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14529 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.206 | 0.205 | 0.100 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.207 | 0.206 | 0.103 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.484 | 20.0 |
| BC14529 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.163 | 0.162 | 0.0974 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.615 | 20.0 |
| BC14529 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.177 | 0.173 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.29 | 20.0 |
| BC14529 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.85 | 1.85 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.85 | 1.86 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.539 | 20.0 |
| BC14529 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0980 | 0.101 | 0.0995 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.02 | 20.0 |
| BC14529 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14529 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 6.16 | 6.13 | 5.11 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.488 | 20.0 |
| BC14529 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 6.62 | 6.70 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.20 | 20.0 |
| BC14534 | Chloride | mg/L | 0.0158 | 1.00 | 10.0 | 14.5 | 14.6 | 10.0 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.687 | 20.0 |
| BC14529 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14529 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.108 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14534 | Fluoride | mg/L | -0.0211 | 0.125 | 2.50 | 2.70 | 2.71 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.370 | 20.0 |
| BC14529 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.206 | 0.205 | 0.199 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.220 | 0.221 | 0.207 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.454 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 10:18

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-25HA

Laboratory ID Number: BC14525

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.270 | 0.270 | 0.204 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.308 | 0.311 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.969 | 20.0 |
| BC14529 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 5.35 | 5.36 | 5.15 | 4.25 to 5.75 | 99.7 | 70.0 to 130 | 0.187 | 20.0 |
| BC14529 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 5.87 | 5.95 | 5.21 | 4.25 to 5.75 | 109 | 70.0 to 130 | 1.35 | 20.0 |
| BC14529 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.957 | 20.0 |
| BC14529 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00406 | 0.00408 | 0.00408 | 0.00340 to 0.00460 | 102 | 70.0 to 130 | 0.491 | 20.0 |
| BC14529 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.111 | 0.109 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.82 | 20.0 |
| BC14529 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.114 | 0.113 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.881 | 20.0 |
| BC14529 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 10.5 | 10.6 | 9.98 | 8.50 to 11.5 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 10.8 | 10.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14529 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.107 | 0.105 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14529 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 5.64 | 5.65 | 1.02 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.177 | 20.0 |
| BC14529 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 5.89 | 5.95 | 1.03 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.01 | 20.0 |
| BC14529 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 227 | 231 | 5.10 | 4.25 to 5.75 | -160 | 70.0 to 130 | 1.75 | 20.0 |
| BC14529 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 234 | 240 | 5.06 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 2.53 | 20.0 |
| BC14529 | Sulfate | mg/L | -0.400 | 2.0 | 400 | 635 | 641 | 19.5 | 18.0 to 22.0 | 107 | 80.0 to 120 | 0.940 | 20.0 |
| BC14529 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.0987 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 0.404 | 20.0 |
| BC14529 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.6 | 11.7 | 25.0 | | 97.6 | 80.0 to 120 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 10:18

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-25HA

Laboratory ID Number: BC14525

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14529 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.03 | 0.200 | 2.00 | 2.22 | 0.020 | 2.17 | 1.80 to 2.20 | 111 | 90.0 to 110 | 0.00 | 15.0 |
| BC14528 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 584 | 45.0 | 40.0 to 60.0 | | | 1.70 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-10R

Location Code: WMWGORAP
Collected: 8/3/22 13:15
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14526

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 11:19 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 8/9/22 06:37 | 8/11/22 10:26 | | 10.15 | 46.6 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 11:19 | | 1.015 | 0.726 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 11:19 | | 1.015 | 0.0391 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/9/22 11:19 | | 1.015 | 17.6 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 11:19 | | 1 | 26.8 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 11:19 | | 1.015 | 12.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/11/22 10:26 | | 10.15 | 44.5 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 13:52 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/12/22 13:48 | | 10.15 | 56.9 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 13:52 | | 1.015 | 0.444 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 13:52 | | 1.015 | 0.0350 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 13:52 | | 1.015 | 16.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 13:52 | | 1 | 25.7 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 13:52 | | 1.015 | 12.0 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/12/22 13:48 | | 10.15 | 57.8 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | 0.00109 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | 0.524 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | 0.000414 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | 0.0000887 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | 0.0702 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | 0.00163 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | 10.3 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-10R

Location Code: WMWGORAP
Collected: 8/3/22 13:15
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14526

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 14:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | 0.000416 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | 0.484 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | 0.000227 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | 0.0000770 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | 0.0710 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | 0.00141 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | 10.1 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 10:05 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:19 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:44 | 8/10/22 13:44 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 205 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/8/22 11:40 | 8/10/22 12:30 | | 1 | 313 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 203 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 2.09 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/9/22 21:41 | 8/9/22 21:41 | | 1 | 1.18 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-10R

Location Code: WMWGORAP

Collected: 8/3/22 13:15

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14526

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:12 | 8/8/22 11:12 | | 3 | 33.5 | mg/L | 1.50 | 3 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:32 | 8/8/22 14:32 | | 1 | 0.265 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:21 | 8/5/22 08:21 | | 1 | 30.9 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/3/22 13:11 | 8/3/22 13:11 | | | 598.76 | uS/cm | | | FA |
| pH | 8/3/22 13:11 | 8/3/22 13:11 | | | 6.70 | SU | | | FA |
| Temperature | 8/3/22 13:11 | 8/3/22 13:11 | | | 19.68 | C | | | FA |
| Turbidity | 8/3/22 13:11 | 8/3/22 13:11 | | | 3.21 | NTU | | | FA |
| Sulfide | 8/3/22 13:11 | 8/3/22 13:11 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 13:15

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-10R

Laboratory ID Number: BC14526

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.110 | 0.111 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.905 | 20.0 |
| BC14529 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.120 | 0.118 | 0.109 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.68 | 20.0 |
| BC14529 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0994 | 0.0983 | 0.0923 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.11 | 20.0 |
| BC14529 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.107 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14529 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.206 | 0.205 | 0.100 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.207 | 0.206 | 0.103 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.484 | 20.0 |
| BC14529 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.163 | 0.162 | 0.0974 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.615 | 20.0 |
| BC14529 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.177 | 0.173 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.29 | 20.0 |
| BC14529 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.85 | 1.85 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.85 | 1.86 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.539 | 20.0 |
| BC14529 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0980 | 0.101 | 0.0995 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.02 | 20.0 |
| BC14529 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14529 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 6.16 | 6.13 | 5.11 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.488 | 20.0 |
| BC14529 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 6.62 | 6.70 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.20 | 20.0 |
| BC14534 | Chloride | mg/L | 0.0158 | 1.00 | 10.0 | 14.5 | 14.6 | 10.0 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.687 | 20.0 |
| BC14529 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14529 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.108 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14534 | Fluoride | mg/L | -0.0211 | 0.125 | 2.50 | 2.70 | 2.71 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.370 | 20.0 |
| BC14529 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.206 | 0.205 | 0.199 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.220 | 0.221 | 0.207 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.454 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 13:15

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-10R

Laboratory ID Number: BC14526

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.270 | 0.270 | 0.204 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.308 | 0.311 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.969 | 20.0 |
| BC14529 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 5.35 | 5.36 | 5.15 | 4.25 to 5.75 | 99.7 | 70.0 to 130 | 0.187 | 20.0 |
| BC14529 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 5.87 | 5.95 | 5.21 | 4.25 to 5.75 | 109 | 70.0 to 130 | 1.35 | 20.0 |
| BC14529 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.957 | 20.0 |
| BC14529 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00406 | 0.00408 | 0.00408 | 0.00340 to 0.00460 | 102 | 70.0 to 130 | 0.491 | 20.0 |
| BC14529 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.111 | 0.109 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.82 | 20.0 |
| BC14529 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.114 | 0.113 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.881 | 20.0 |
| BC14529 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 10.5 | 10.6 | 9.98 | 8.50 to 11.5 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 10.8 | 10.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14529 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.107 | 0.105 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14529 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 5.64 | 5.65 | 1.02 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.177 | 20.0 |
| BC14529 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 5.89 | 5.95 | 1.03 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.01 | 20.0 |
| BC14529 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 227 | 231 | 5.10 | 4.25 to 5.75 | -160 | 70.0 to 130 | 1.75 | 20.0 |
| BC14529 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 234 | 240 | 5.06 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 2.53 | 20.0 |
| BC14529 | Sulfate | mg/L | -0.400 | 2.0 | 400 | 635 | 641 | 19.5 | 18.0 to 22.0 | 107 | 80.0 to 120 | 0.940 | 20.0 |
| BC14529 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.0987 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 0.404 | 20.0 |
| BC14529 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.6 | 11.7 | 25.0 | | 97.6 | 80.0 to 120 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 13:15

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-10R

Laboratory ID Number: BC14526

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14529 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.03 | 0.200 | 2.00 | 2.22 | 0.020 | 2.17 | 1.80 to 2.20 | 111 | 90.0 to 110 | 0.00 | 15.0 |
| BC14526 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 315 | 51.0 | 40.0 to 60.0 | | | 0.637 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-30HA

Location Code: WMWGORAP
Collected: 8/3/22 15:17
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14527

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 11:26 | | 1.015 | 0.0761 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/9/22 06:37 | 8/11/22 10:29 | | 10.15 | 60.3 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 11:26 | | 1.015 | 3.69 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 11:26 | | 1.015 | 0.0700 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/9/22 11:26 | | 1.015 | 9.30 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 11:26 | | 1 | 24.6 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 11:26 | | 1.015 | 11.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/11/22 10:29 | | 10.15 | 226 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 13:59 | | 1.015 | 0.0696 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/12/22 13:54 | | 10.15 | 66.1 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 13:59 | | 1.015 | 3.55 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 13:59 | | 1.015 | 0.0625 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 13:59 | | 1.015 | 9.08 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 13:59 | | 1 | 22.9 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 13:59 | | 1.015 | 10.7 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/12/22 13:54 | | 10.15 | 251 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | 0.159 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | 0.00387 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | 0.113 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | 0.000398 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | 0.000255 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | 0.000194 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | 0.227 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | 0.00614 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | 5.49 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-30HA

Location Code: WMWGORAP
Collected: 8/3/22 15:17
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14527

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 14:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | 0.00485 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | 0.0977 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | 0.000229 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | 0.000124 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | 0.194 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | 0.00625 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | 5.04 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 10:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:23 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:46 | 8/10/22 13:46 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 313 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/8/22 11:40 | 8/10/22 12:30 | | 1 | 758 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 311 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 1.57 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/9/22 21:58 | 8/9/22 21:58 | | 1 | 2.44 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-30HA

Location Code: WMWGORAP

Collected: 8/3/22 15:17

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14527

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 10:59 | 8/8/22 10:59 | | 1 | 5.91 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:33 | 8/8/22 14:33 | | 1 | 2.20 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:30 | 8/5/22 08:30 | | 16 | 279 | mg/L | 9.6 | 32 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/3/22 15:14 | 8/3/22 15:14 | | | 1198.72 | uS/cm | | | FA |
| pH | 8/3/22 15:14 | 8/3/22 15:14 | | | 7.17 | SU | | | FA |
| Temperature | 8/3/22 15:14 | 8/3/22 15:14 | | | 21.91 | C | | | FA |
| Turbidity | 8/3/22 15:14 | 8/3/22 15:14 | | | 4.82 | NTU | | | FA |
| Sulfide | 8/3/22 15:14 | 8/3/22 15:14 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 15:17

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-30HA

Laboratory ID Number: BC14527

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.110 | 0.111 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.905 | 20.0 |
| BC14529 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.120 | 0.118 | 0.109 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.68 | 20.0 |
| BC14529 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0994 | 0.0983 | 0.0923 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.11 | 20.0 |
| BC14529 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.107 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14529 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.206 | 0.205 | 0.100 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.207 | 0.206 | 0.103 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.484 | 20.0 |
| BC14529 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.163 | 0.162 | 0.0974 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.615 | 20.0 |
| BC14529 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.177 | 0.173 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.29 | 20.0 |
| BC14529 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.85 | 1.85 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.85 | 1.86 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.539 | 20.0 |
| BC14529 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0980 | 0.101 | 0.0995 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.02 | 20.0 |
| BC14529 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14529 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 6.16 | 6.13 | 5.11 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.488 | 20.0 |
| BC14529 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 6.62 | 6.70 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.20 | 20.0 |
| BC14534 | Chloride | mg/L | 0.0158 | 1.00 | 10.0 | 14.5 | 14.6 | 10.0 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.687 | 20.0 |
| BC14529 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14529 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.108 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14534 | Fluoride | mg/L | -0.0211 | 0.125 | 2.50 | 2.70 | 2.71 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.370 | 20.0 |
| BC14529 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.206 | 0.205 | 0.199 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.220 | 0.221 | 0.207 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.454 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 15:17

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-30HA

Laboratory ID Number: BC14527

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.270 | 0.270 | 0.204 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.308 | 0.311 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.969 | 20.0 |
| BC14529 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 5.35 | 5.36 | 5.15 | 4.25 to 5.75 | 99.7 | 70.0 to 130 | 0.187 | 20.0 |
| BC14529 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 5.87 | 5.95 | 5.21 | 4.25 to 5.75 | 109 | 70.0 to 130 | 1.35 | 20.0 |
| BC14529 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.957 | 20.0 |
| BC14529 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00406 | 0.00408 | 0.00408 | 0.00340 to 0.00460 | 102 | 70.0 to 130 | 0.491 | 20.0 |
| BC14529 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.111 | 0.109 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.82 | 20.0 |
| BC14529 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.114 | 0.113 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.881 | 20.0 |
| BC14529 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 10.5 | 10.6 | 9.98 | 8.50 to 11.5 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 10.8 | 10.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14529 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.107 | 0.105 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14529 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 5.64 | 5.65 | 1.02 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.177 | 20.0 |
| BC14529 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 5.89 | 5.95 | 1.03 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.01 | 20.0 |
| BC14529 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 227 | 231 | 5.10 | 4.25 to 5.75 | -160 | 70.0 to 130 | 1.75 | 20.0 |
| BC14529 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 234 | 240 | 5.06 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 2.53 | 20.0 |
| BC14529 | Sulfate | mg/L | -0.400 | 2.0 | 400 | 635 | 641 | 19.5 | 18.0 to 22.0 | 107 | 80.0 to 120 | 0.940 | 20.0 |
| BC14529 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.0987 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 0.404 | 20.0 |
| BC14529 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.6 | 11.7 | 25.0 | | 97.6 | 80.0 to 120 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 15:17

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-30HA

Laboratory ID Number: BC14527

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14529 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.03 | 0.200 | 2.00 | 2.22 | 0.020 | 2.17 | 1.80 to 2.20 | 111 | 90.0 to 110 | 0.00 | 15.0 |
| BC14526 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 315 | 51.0 | 40.0 to 60.0 | | | 0.637 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-46

Location Code: WMWGORAP
Collected: 8/2/22 11:10
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14528

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 11:33 | | 1.015 | 0.832 | mg/L | 0.030000 | 0.1015 | | |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 11:33 | | 1.015 | 1.21 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 11:33 | | 1.015 | 0.00867 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 11:33 | | 1.015 | 0.0756 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/9/22 06:35 | 8/9/22 11:33 | | 1.015 | 0.400 | mg/L | 0.021315 | 0.406 | J | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 11:33 | | 1 | 10.5 | mg/L | | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 11:33 | | 1.015 | 4.89 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/9/22 06:37 | 8/11/22 10:33 | | 10.15 | 232 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 14:05 | | 1.015 | 0.830 | mg/L | 0.030000 | 0.1015 | | |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 14:05 | | 1.015 | 1.12 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 14:05 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 14:05 | | 1.015 | 0.0639 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 14:05 | | 1.015 | 0.376 | mg/L | 0.021315 | 0.406 | J | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 14:05 | | 1 | 9.95 | mg/L | | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 14:05 | | 1.015 | 4.65 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/12/22 14:00 | | 10.15 | 248 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | 0.0114 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | 0.119 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | 0.0696 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | 0.000317 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | 0.00104 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | 0.00955 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | 0.613 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-46

Location Code: WMWGORAP
Collected: 8/2/22 11:10
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14528

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 14:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | 0.00849 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | 0.120 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | 0.0639 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | 0.000207 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | 0.000990 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | 0.00842 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | 0.591 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 10:19 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:27 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:48 | 8/10/22 13:48 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 201 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 594 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 196 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 5.07 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/9/22 22:24 | 8/9/22 22:24 | | 1 | 1.80 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-46

Location Code: WMWGORAP
Collected: 8/2/22 11:10
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14528

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:14 | 8/8/22 11:14 | | 3 | 37.0 | mg/L | 1.50 | 3 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:34 | 8/8/22 14:34 | | 1 | 0.249 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:32 | 8/5/22 08:32 | | 16 | 200 | mg/L | 9.6 | 32 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 8/2/22 11:09 | 8/2/22 11:09 | | | 947.76 | uS/cm | | | FA |
| pH | 8/2/22 11:09 | 8/2/22 11:09 | | | 8.67 | SU | | | FA |
| Temperature | 8/2/22 11:09 | 8/2/22 11:09 | | | 20.11 | C | | | FA |
| Turbidity | 8/2/22 11:09 | 8/2/22 11:09 | | | 1.14 | NTU | | | FA |
| Sulfide | 8/2/22 11:09 | 8/2/22 11:09 | | | 6 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 11:10

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-46

Laboratory ID Number: BC14528

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.110 | 0.111 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.905 | 20.0 |
| BC14529 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.120 | 0.118 | 0.109 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.68 | 20.0 |
| BC14529 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0994 | 0.0983 | 0.0923 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.11 | 20.0 |
| BC14529 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.107 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14529 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.206 | 0.205 | 0.100 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.207 | 0.206 | 0.103 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.484 | 20.0 |
| BC14529 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.163 | 0.162 | 0.0974 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.615 | 20.0 |
| BC14529 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.177 | 0.173 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.29 | 20.0 |
| BC14529 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.85 | 1.85 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.85 | 1.86 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.539 | 20.0 |
| BC14529 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0980 | 0.101 | 0.0995 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.02 | 20.0 |
| BC14529 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14529 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 6.16 | 6.13 | 5.11 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.488 | 20.0 |
| BC14529 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 6.62 | 6.70 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.20 | 20.0 |
| BC14534 | Chloride | mg/L | 0.0158 | 1.00 | 10.0 | 14.5 | 14.6 | 10.0 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.687 | 20.0 |
| BC14529 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14529 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.108 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14534 | Fluoride | mg/L | -0.0211 | 0.125 | 2.50 | 2.70 | 2.71 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.370 | 20.0 |
| BC14529 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.206 | 0.205 | 0.199 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.220 | 0.221 | 0.207 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.454 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 11:10

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-46

Laboratory ID Number: BC14528

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.270 | 0.270 | 0.204 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.308 | 0.311 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.969 | 20.0 |
| BC14529 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 5.35 | 5.36 | 5.15 | 4.25 to 5.75 | 99.7 | 70.0 to 130 | 0.187 | 20.0 |
| BC14529 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 5.87 | 5.95 | 5.21 | 4.25 to 5.75 | 109 | 70.0 to 130 | 1.35 | 20.0 |
| BC14529 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.957 | 20.0 |
| BC14529 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00406 | 0.00408 | 0.00408 | 0.00340 to 0.00460 | 102 | 70.0 to 130 | 0.491 | 20.0 |
| BC14529 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.111 | 0.109 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.82 | 20.0 |
| BC14529 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.114 | 0.113 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.881 | 20.0 |
| BC14529 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 10.5 | 10.6 | 9.98 | 8.50 to 11.5 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 10.8 | 10.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14529 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.107 | 0.105 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14529 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 5.64 | 5.65 | 1.02 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.177 | 20.0 |
| BC14529 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 5.89 | 5.95 | 1.03 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.01 | 20.0 |
| BC14529 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 227 | 231 | 5.10 | 4.25 to 5.75 | -160 | 70.0 to 130 | 1.75 | 20.0 |
| BC14529 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 234 | 240 | 5.06 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 2.53 | 20.0 |
| BC14529 | Sulfate | mg/L | -0.400 | 2.0 | 400 | 635 | 641 | 19.5 | 18.0 to 22.0 | 107 | 80.0 to 120 | 0.940 | 20.0 |
| BC14529 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.0987 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 0.404 | 20.0 |
| BC14529 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.6 | 11.7 | 25.0 | | 97.6 | 80.0 to 120 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 11:10

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-46

Laboratory ID Number: BC14528

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC14536 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 238 | 50.2 | 45.0 to 55.0 | | | 0.837 | 10.0 |
| BC14529 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.03 | 0.200 | 2.00 | 2.22 | 0.020 | 2.17 | 1.80 to 2.20 | 111 | 90.0 to 110 | 0.00 | 15.0 |
| BC14528 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 584 | 45.0 | 40.0 to 60.0 | | | 1.70 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-46 DUP

Location Code: WMWGORAP
Collected: 8/2/22 11:00
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14529

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 11:40 | | 1.015 | 0.824 | mg/L | 0.030000 | 0.1015 | | |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 11:40 | | 1.015 | 1.20 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 11:40 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 11:40 | | 1.015 | 0.0749 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/9/22 06:35 | 8/9/22 11:40 | | 1.015 | 0.397 | mg/L | 0.021315 | 0.406 | J | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 11:40 | | 1 | 10.4 | mg/L | | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 11:40 | | 1.015 | 4.87 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/9/22 06:37 | 8/11/22 10:36 | | 10.15 | 235 | mg/L | 0.3045 | 4.06 | RA | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 14:11 | | 1.015 | 0.830 | mg/L | 0.030000 | 0.1015 | | |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 14:11 | | 1.015 | 1.13 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 14:11 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 14:11 | | 1.015 | 0.0640 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 14:11 | | 1.015 | 0.366 | mg/L | 0.021315 | 0.406 | J | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 14:11 | | 1 | 9.95 | mg/L | | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 14:11 | | 1.015 | 4.65 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/12/22 14:29 | | 10.15 | 235 | mg/L | 0.3045 | 4.06 | RA | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | 0.0116 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | 0.121 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | 0.0699 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | 0.000302 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | 0.000980 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | 0.00936 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | 0.582 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate-Nitrite matrix spike recovery was outside of the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-46 DUP

Location Code: WMWGORAP
Collected: 8/2/22 11:00
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14529

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 14:33 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | 0.00809 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | 0.120 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | 0.0659 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | 0.000222 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | 0.00103 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | 0.00843 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | 0.591 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 10:26 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:31 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:50 | 8/10/22 13:50 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 201 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 594 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 196 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 4.74 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/9/22 22:45 | 8/9/22 22:45 | | 1 | 1.84 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate-Nitrite matrix spike recovery was outside of the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-46 DUP

Location Code: WMWGORAP

Collected: 8/2/22 11:00

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14529

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:15 | 8/8/22 11:15 | | 3 | 36.1 | mg/L | 1.50 | 3 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:36 | 8/8/22 14:36 | | 1 | 0.252 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:41 | 8/5/22 08:41 | | 20 | 208 | mg/L | 12.0 | 40 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 8/2/22 11:09 | 8/2/22 11:09 | | | 947.76 | uS/cm | | | FA |
| pH | 8/2/22 11:09 | 8/2/22 11:09 | | | 8.67 | SU | | | FA |
| Temperature | 8/2/22 11:09 | 8/2/22 11:09 | | | 20.11 | C | | | FA |
| Turbidity | 8/2/22 11:09 | 8/2/22 11:09 | | | 1.14 | NTU | | | FA |
| Sulfide | 8/2/22 11:09 | 8/2/22 11:09 | | | 6 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate-Nitrite matrix spike recovery was outside of the specification limit.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 11:00

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-46 DUP

Laboratory ID Number: BC14529

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14529 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.110 | 0.111 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.905 | 20.0 |
| BC14529 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.120 | 0.118 | 0.109 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.68 | 20.0 |
| BC14529 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0994 | 0.0983 | 0.0923 | 0.0850 to 0.115 | 99.4 | 70.0 to 130 | 1.11 | 20.0 |
| BC14529 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.107 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14529 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.206 | 0.205 | 0.100 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.207 | 0.206 | 0.103 | 0.0850 to 0.115 | 86.0 | 70.0 to 130 | 0.484 | 20.0 |
| BC14529 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.163 | 0.162 | 0.0974 | 0.0850 to 0.115 | 97.1 | 70.0 to 130 | 0.615 | 20.0 |
| BC14529 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.177 | 0.173 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.29 | 20.0 |
| BC14529 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.105 | 0.106 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.85 | 1.85 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.85 | 1.86 | 1.01 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.539 | 20.0 |
| BC14529 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0980 | 0.101 | 0.0995 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 3.02 | 20.0 |
| BC14529 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.103 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.966 | 20.0 |
| BC14529 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 6.16 | 6.13 | 5.11 | 4.25 to 5.75 | 101 | 70.0 to 130 | 0.488 | 20.0 |
| BC14529 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 6.62 | 6.70 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.20 | 20.0 |
| BC14534 | Chloride | mg/L | 0.0158 | 1.00 | 10.0 | 14.5 | 14.6 | 10.0 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.687 | 20.0 |
| BC14529 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14529 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.103 | 0.103 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.107 | 0.108 | 0.108 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14534 | Fluoride | mg/L | -0.0211 | 0.125 | 2.50 | 2.70 | 2.71 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.370 | 20.0 |
| BC14529 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.206 | 0.205 | 0.199 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.487 | 20.0 |
| BC14529 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.220 | 0.221 | 0.207 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.454 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate-Nitrite matrix spike recovery was outside of the specification limit.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 11:00

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-46 DUP

Laboratory ID Number: BC14529

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|-------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC14529 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.103 | 0.102 | 0.102 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.270 | 0.270 | 0.204 | 0.170 to 0.230 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.308 | 0.311 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.969 | 20.0 |
| BC14529 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 5.35 | 5.36 | 5.15 | 4.25 to 5.75 | 99.7 | 70.0 to 130 | 0.187 | 20.0 |
| BC14529 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 5.87 | 5.95 | 5.21 | 4.25 to 5.75 | 109 | 70.0 to 130 | 1.35 | 20.0 |
| BC14529 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.104 | 0.105 | 0.104 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.957 | 20.0 |
| BC14529 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.105 | 0.105 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00406 | 0.00408 | 0.00408 | 0.00340 to 0.00460 | 102 | 70.0 to 130 | 0.491 | 20.0 |
| BC14529 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.111 | 0.109 | 0.101 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.82 | 20.0 |
| BC14529 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.114 | 0.113 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.881 | 20.0 |
| BC14529 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 10.5 | 10.6 | 9.98 | 8.50 to 11.5 | 99.1 | 70.0 to 130 | 0.948 | 20.0 |
| BC14529 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 10.8 | 10.8 | 10.3 | 8.50 to 11.5 | 102 | 70.0 to 130 | 0.00 | 20.0 |
| BC14529 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.105 | 0.108 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14529 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.107 | 0.105 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14529 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 5.64 | 5.65 | 1.02 | 0.850 to 1.15 | 99.0 | 70.0 to 130 | 0.177 | 20.0 |
| BC14529 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 5.89 | 5.95 | 1.03 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.01 | 20.0 |
| BC14529 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 227 | 231 | 5.10 | 4.25 to 5.75 | -160 | 70.0 to 130 | 1.75 | 20.0 |
| BC14529 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 234 | 240 | 5.06 | 4.25 to 5.75 | -20.0 | 70.0 to 130 | 2.53 | 20.0 |
| BC14529 | Sulfate | mg/L | -0.400 | 2.0 | 400 | 635 | 641 | 19.5 | 18.0 to 22.0 | 107 | 80.0 to 120 | 0.940 | 20.0 |
| BC14529 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.0987 | 0.0991 | 0.101 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 0.404 | 20.0 |
| BC14529 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC14529 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.6 | 11.7 | 25.0 | | 97.6 | 80.0 to 120 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate-Nitrite matrix spike recovery was outside of the specification limit.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 11:00

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-46 DUP

Laboratory ID Number: BC14529

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BC14536 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 238 | 50.2 | 45.0 to 55.0 | | | 0.837 | 10.0 |
| BC14529 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.03 | 0.200 | 2.00 | 2.22 | 0.020 | 2.17 | 1.80 to 2.20 | 111 | 90.0 to 110 | 0.00 | 15.0 |
| BC14539 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 375 | 45.0 | 40.0 to 60.0 | | | 0.535 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate-Nitrite matrix spike recovery was outside of the specification limit.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-01R

Location Code: WMWGORAP
Collected: 8/2/22 14:17
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14530

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 12:10 | | 1.015 | 0.0596 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 12:10 | | 1.015 | 0.888 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 12:10 | | 1.015 | 0.158 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 12:10 | | 1.015 | 0.0385 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/10/22 14:05 | | 1.015 | 0.277 | mg/L | 0.021315 | 0.406 | J |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 12:10 | | 1 | 10.8 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 12:10 | | 1.015 | 5.03 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/12/22 10:36 | | 10.15 | 137 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 14:47 | | 1.015 | 0.0580 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 14:47 | | 1.015 | 0.797 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 14:47 | | 1.015 | 0.0188 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 14:47 | | 1.015 | 0.0311 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 14:47 | | 1.015 | 0.230 | mg/L | 0.021315 | 0.406 | J |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 14:47 | | 1 | 9.37 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 14:47 | | 1.015 | 4.38 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/16/22 11:30 | | 10.15 | 155 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | 0.209 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | 0.000259 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | 0.0679 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | 0.000370 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | 0.000135 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | 0.00359 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | 0.00102 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | 0.471 | mg/L | 0.169505 | 0.5075 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-01R

Location Code: WMWGORAP
Collected: 8/2/22 14:17
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14530

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 15:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | 0.0132 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | 0.000224 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | 0.0601 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | 0.00249 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | 0.000941 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | 0.429 | mg/L | 0.169505 | 0.5075 | J |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 10:59 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:51 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 13:59 | 8/10/22 13:59 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 264 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 309 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 251 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 12.4 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 00:19 | 8/10/22 00:19 | | 1 | 1.27 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-01R

Location Code: WMWGORAP

Collected: 8/2/22 14:17

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14530

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:03 | 8/8/22 11:03 | | 1 | 5.38 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:37 | 8/8/22 14:37 | | 1 | 0.177 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:53 | 8/5/22 08:53 | | 1 | 4.28 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 8/2/22 14:15 | 8/2/22 14:15 | | | 490.00 | uS/cm | | | FA |
| pH | 8/2/22 14:15 | 8/2/22 14:15 | | | 8.35 | SU | | | FA |
| Temperature | 8/2/22 14:15 | 8/2/22 14:15 | | | 20.94 | C | | | FA |
| Turbidity | 8/2/22 14:15 | 8/2/22 14:15 | | | 5.37 | NTU | | | FA |
| Sulfide | 8/2/22 14:15 | 8/2/22 14:15 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 14:17

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-01R

Laboratory ID Number: BC14530

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.111 | 0.109 | 0.102 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.112 | 0.114 | 0.109 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0948 | 0.0972 | 0.0923 | 0.0850 to 0.115 | 94.8 | 70.0 to 130 | 2.50 | 20.0 |
| BC14539 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.106 | 0.107 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14539 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.100 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.337 | 0.336 | 0.0974 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.297 | 20.0 |
| BC14539 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.346 | 0.349 | 0.107 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.863 | 20.0 |
| BC14539 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.109 | 0.111 | 0.101 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.111 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.67 | 20.0 |
| BC14539 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.43 | 1.45 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.39 | 20.0 |
| BC14539 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.42 | 1.41 | 1.01 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.707 | 20.0 |
| BC14539 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.0995 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14539 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.102 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14539 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 18.4 | 18.8 | 5.11 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 2.15 | 20.0 |
| BC14539 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 19.9 | 19.8 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.504 | 20.0 |
| BC14534 | Chloride | mg/L | 0.0158 | 1.00 | 10.0 | 14.5 | 14.6 | 10.0 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.687 | 20.0 |
| BC14539 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.104 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.101 | 0.104 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC14539 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14534 | Fluoride | mg/L | -0.0211 | 0.125 | 2.50 | 2.70 | 2.71 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.370 | 20.0 |
| BC14539 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.350 | 0.350 | 0.199 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.417 | 0.415 | 0.207 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.481 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 14:17

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-01R

Laboratory ID Number: BC14530

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.263 | 0.265 | 0.204 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 0.758 | 20.0 |
| BC14539 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.315 | 0.312 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 9.35 | 9.53 | 5.15 | 4.25 to 5.75 | 95.4 | 70.0 to 130 | 1.91 | 20.0 |
| BC14539 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 10.7 | 10.5 | 5.21 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.89 | 20.0 |
| BC14539 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.113 | 0.112 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.889 | 20.0 |
| BC14539 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.112 | 0.114 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00408 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.24 | 20.0 |
| BC14539 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.136 | 0.139 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.18 | 20.0 |
| BC14539 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.138 | 0.143 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.56 | 20.0 |
| BC14539 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 11.3 | 11.5 | 9.98 | 8.50 to 11.5 | 99.6 | 70.0 to 130 | 1.75 | 20.0 |
| BC14539 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 11.5 | 11.8 | 10.3 | 8.50 to 11.5 | 100 | 70.0 to 130 | 2.58 | 20.0 |
| BC14539 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.102 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14539 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.106 | 0.110 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 3.70 | 20.0 |
| BC14539 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 10.5 | 10.6 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 11.0 | 10.9 | 1.03 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.913 | 20.0 |
| BC14539 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 178 | 155 | 5.10 | 4.25 to 5.75 | 380 | 70.0 to 130 | 13.8 | 20.0 |
| BC14539 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 151 | 150 | 5.06 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.664 | 20.0 |
| BC14539 | Sulfate | mg/L | 0.349 | 2.0 | 20.0 | 46.0 | 46.1 | 19.8 | 18.0 to 22.0 | 88.5 | 80.0 to 120 | 0.217 | 20.0 |
| BC14539 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC14539 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Total Organic Carbon | mg/L | 0.191 | 1.00 | 10.0 | 11.1 | 11.0 | 24.8 | | 99.2 | 80.0 to 120 | 0.905 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 14:17

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-01R

Laboratory ID Number: BC14530

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BC14536 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 238 | 50.2 | 45.0 to 55.0 | | | 0.837 | 10.0 |
| BC14539 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.02 | 0.007 | 2.18 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC14539 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 375 | 45.0 | 40.0 to 60.0 | | | 0.535 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31H

Location Code: WMWGORAP
Collected: 8/3/22 09:35
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14531

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 12:16 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 12:16 | | 1.015 | 4.85 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 12:16 | | 1.015 | 0.0128 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 12:16 | | 1.015 | 0.0512 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/10/22 14:11 | | 1.015 | 1.84 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 12:16 | | 1 | 16.7 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 12:16 | | 1.015 | 7.81 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/12/22 10:43 | | 10.15 | 161 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 14:53 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 14:53 | | 1.015 | 4.47 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 14:53 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 14:53 | | 1.015 | 0.0434 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 14:53 | | 1.015 | 1.71 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 14:53 | | 1 | 16.1 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 14:53 | | 1.015 | 7.51 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/16/22 11:37 | | 10.15 | 202 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | 0.0241 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | 0.000201 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | 0.134 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | 0.000350 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | 0.00764 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | 0.00255 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | 1.39 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31H

Location Code: WMWGORAP
Collected: 8/3/22 09:35
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14531

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 15:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | 0.0132 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | 0.000174 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | 0.128 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | 0.00786 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | 0.00231 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | 1.35 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:55 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 14:01 | 8/10/22 14:01 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 288 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 383 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 273 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 15.1 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 00:40 | 8/10/22 00:40 | | 1 | 1.05 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31H

Location Code: WMWGORAP

Collected: 8/3/22 09:35

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14531

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:18 | 8/8/22 11:18 | | 2 | 21.6 | mg/L | 1.00 | 2 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:38 | 8/8/22 14:38 | | 1 | 0.141 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:54 | 8/5/22 08:54 | | 1 | 12.5 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 8/3/22 09:31 | 8/3/22 09:31 | | | 620.77 | uS/cm | | | FA |
| pH | 8/3/22 09:31 | 8/3/22 09:31 | | | 8.85 | SU | | | FA |
| Temperature | 8/3/22 09:31 | 8/3/22 09:31 | | | 18.88 | C | | | FA |
| Turbidity | 8/3/22 09:31 | 8/3/22 09:31 | | | 1.57 | NTU | | | FA |
| Sulfide | 8/3/22 09:31 | 8/3/22 09:31 | | | 3 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 09:35

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-31H

Laboratory ID Number: BC14531

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.111 | 0.109 | 0.102 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.112 | 0.114 | 0.109 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0948 | 0.0972 | 0.0923 | 0.0850 to 0.115 | 94.8 | 70.0 to 130 | 2.50 | 20.0 |
| BC14539 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.106 | 0.107 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14539 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.100 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.337 | 0.336 | 0.0974 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.297 | 20.0 |
| BC14539 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.346 | 0.349 | 0.107 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.863 | 20.0 |
| BC14539 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.109 | 0.111 | 0.101 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.111 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.67 | 20.0 |
| BC14539 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.43 | 1.45 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.39 | 20.0 |
| BC14539 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.42 | 1.41 | 1.01 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.707 | 20.0 |
| BC14539 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.0995 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14539 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.102 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14539 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 18.4 | 18.8 | 5.11 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 2.15 | 20.0 |
| BC14539 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 19.9 | 19.8 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.504 | 20.0 |
| BC14534 | Chloride | mg/L | 0.0158 | 1.00 | 10.0 | 14.5 | 14.6 | 10.0 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.687 | 20.0 |
| BC14539 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.104 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.101 | 0.104 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC14539 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14534 | Fluoride | mg/L | -0.0211 | 0.125 | 2.50 | 2.70 | 2.71 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.370 | 20.0 |
| BC14539 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.350 | 0.350 | 0.199 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.417 | 0.415 | 0.207 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.481 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 09:35

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-31H

Laboratory ID Number: BC14531

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.263 | 0.265 | 0.204 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 0.758 | 20.0 |
| BC14539 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.315 | 0.312 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 9.35 | 9.53 | 5.15 | 4.25 to 5.75 | 95.4 | 70.0 to 130 | 1.91 | 20.0 |
| BC14539 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 10.7 | 10.5 | 5.21 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.89 | 20.0 |
| BC14539 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.113 | 0.112 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.889 | 20.0 |
| BC14539 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.112 | 0.114 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00408 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.24 | 20.0 |
| BC14539 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.136 | 0.139 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.18 | 20.0 |
| BC14539 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.138 | 0.143 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.56 | 20.0 |
| BC14539 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 11.3 | 11.5 | 9.98 | 8.50 to 11.5 | 99.6 | 70.0 to 130 | 1.75 | 20.0 |
| BC14539 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 11.5 | 11.8 | 10.3 | 8.50 to 11.5 | 100 | 70.0 to 130 | 2.58 | 20.0 |
| BC14539 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.102 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14539 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.106 | 0.110 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 3.70 | 20.0 |
| BC14539 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 10.5 | 10.6 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 11.0 | 10.9 | 1.03 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.913 | 20.0 |
| BC14539 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 178 | 155 | 5.10 | 4.25 to 5.75 | 380 | 70.0 to 130 | 13.8 | 20.0 |
| BC14539 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 151 | 150 | 5.06 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.664 | 20.0 |
| BC14539 | Sulfate | mg/L | 0.349 | 2.0 | 20.0 | 46.0 | 46.1 | 19.8 | 18.0 to 22.0 | 88.5 | 80.0 to 120 | 0.217 | 20.0 |
| BC14539 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC14539 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Total Organic Carbon | mg/L | 0.191 | 1.00 | 10.0 | 11.1 | 11.0 | 24.8 | | 99.2 | 80.0 to 120 | 0.905 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 09:35

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-31H

Laboratory ID Number: BC14531

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14539 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.02 | 0.007 | 2.18 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC14539 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 375 | 45.0 | 40.0 to 60.0 | | | 0.535 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31V

Location Code: WMWGORAP
Collected: 8/3/22 11:47
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14532

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 12:23 | | 1.015 | 0.0391 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 12:23 | | 1.015 | 13.0 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 12:23 | | 1.015 | 0.0902 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 12:23 | | 1.015 | 0.0429 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/10/22 14:18 | | 1.015 | 4.09 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 12:23 | | 1 | 14.1 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 12:23 | | 1.015 | 6.58 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/12/22 10:51 | | 10.15 | 296 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 15:00 | | 1.015 | 0.0365 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 15:00 | | 1.015 | 8.12 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 15:00 | | 1.015 | 0.0355 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 15:00 | | 1.015 | 0.0377 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 15:00 | | 1.015 | 2.52 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 15:00 | | 1 | 13.1 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 15:00 | | 1.015 | 6.14 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/16/22 11:43 | | 10.15 | 322 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | 0.0435 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | 0.00150 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | 0.342 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | 0.000803 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | 0.000166 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | 0.0355 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | 0.0243 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | 20.4 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31V

Location Code: WMWGORAP
Collected: 8/3/22 11:47
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14532

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 15:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | 0.00697 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | 0.00112 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | 0.225 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | 0.000221 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | 0.0274 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | 0.0142 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | 12.3 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 20:59 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 14:03 | 8/10/22 14:03 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 350 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 767 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 344 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 5.50 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 01:02 | 8/10/22 01:02 | | 1 | 1.86 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-31V

Location Code: WMWGORAP

Collected: 8/3/22 11:47

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14532

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:16 | 8/8/22 11:16 | | 8 | 127 | mg/L | 4.00 | 8 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:39 | 8/8/22 14:39 | | 1 | 0.237 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 09:07 | 8/5/22 09:07 | | 5 | 111 | mg/L | 3.0 | 10 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 8/3/22 11:45 | 8/3/22 11:45 | | | 1471.52 | uS/cm | | | FA |
| pH | 8/3/22 11:45 | 8/3/22 11:45 | | | 7.88 | SU | | | FA |
| Temperature | 8/3/22 11:45 | 8/3/22 11:45 | | | 21.68 | C | | | FA |
| Turbidity | 8/3/22 11:45 | 8/3/22 11:45 | | | 3.29 | NTU | | | FA |
| Sulfide | 8/3/22 11:45 | 8/3/22 11:45 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 11:47

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-31V

Laboratory ID Number: BC14532

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.111 | 0.109 | 0.102 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.112 | 0.114 | 0.109 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0948 | 0.0972 | 0.0923 | 0.0850 to 0.115 | 94.8 | 70.0 to 130 | 2.50 | 20.0 |
| BC14539 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.106 | 0.107 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14539 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.100 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.337 | 0.336 | 0.0974 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.297 | 20.0 |
| BC14539 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.346 | 0.349 | 0.107 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.863 | 20.0 |
| BC14539 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.109 | 0.111 | 0.101 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.111 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.67 | 20.0 |
| BC14539 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.43 | 1.45 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.39 | 20.0 |
| BC14539 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.42 | 1.41 | 1.01 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.707 | 20.0 |
| BC14539 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.0995 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14539 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.102 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14539 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 18.4 | 18.8 | 5.11 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 2.15 | 20.0 |
| BC14539 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 19.9 | 19.8 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.504 | 20.0 |
| BC14534 | Chloride | mg/L | 0.0158 | 1.00 | 10.0 | 14.5 | 14.6 | 10.0 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.687 | 20.0 |
| BC14539 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.104 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.101 | 0.104 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC14539 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14534 | Fluoride | mg/L | -0.0211 | 0.125 | 2.50 | 2.70 | 2.71 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.370 | 20.0 |
| BC14539 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.350 | 0.350 | 0.199 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.417 | 0.415 | 0.207 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.481 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 11:47

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-31V

Laboratory ID Number: BC14532

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.263 | 0.265 | 0.204 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 0.758 | 20.0 |
| BC14539 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.315 | 0.312 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 9.35 | 9.53 | 5.15 | 4.25 to 5.75 | 95.4 | 70.0 to 130 | 1.91 | 20.0 |
| BC14539 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 10.7 | 10.5 | 5.21 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.89 | 20.0 |
| BC14539 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.113 | 0.112 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.889 | 20.0 |
| BC14539 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.112 | 0.114 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00408 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.24 | 20.0 |
| BC14539 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.136 | 0.139 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.18 | 20.0 |
| BC14539 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.138 | 0.143 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.56 | 20.0 |
| BC14539 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 11.3 | 11.5 | 9.98 | 8.50 to 11.5 | 99.6 | 70.0 to 130 | 1.75 | 20.0 |
| BC14539 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 11.5 | 11.8 | 10.3 | 8.50 to 11.5 | 100 | 70.0 to 130 | 2.58 | 20.0 |
| BC14539 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.102 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14539 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.106 | 0.110 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 3.70 | 20.0 |
| BC14539 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 10.5 | 10.6 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 11.0 | 10.9 | 1.03 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.913 | 20.0 |
| BC14539 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 178 | 155 | 5.10 | 4.25 to 5.75 | 380 | 70.0 to 130 | 13.8 | 20.0 |
| BC14539 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 151 | 150 | 5.06 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.664 | 20.0 |
| BC14539 | Sulfate | mg/L | 0.349 | 2.0 | 20.0 | 46.0 | 46.1 | 19.8 | 18.0 to 22.0 | 88.5 | 80.0 to 120 | 0.217 | 20.0 |
| BC14539 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC14539 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Total Organic Carbon | mg/L | 0.191 | 1.00 | 10.0 | 11.1 | 11.0 | 24.8 | | 99.2 | 80.0 to 120 | 0.905 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 11:47

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-31V

Laboratory ID Number: BC14532

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14539 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.02 | 0.007 | 2.18 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC14539 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 375 | 45.0 | 40.0 to 60.0 | | | 0.535 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-43H

Location Code: WMWGORAP
Collected: 8/3/22 13:05
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14533

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 12:30 | | 1.015 | 0.139 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 12:30 | | 1.015 | 5.62 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 12:30 | | 1.015 | 0.0222 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 12:30 | | 1.015 | 0.0749 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/10/22 14:25 | | 1.015 | 1.61 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 12:30 | | 1 | 13.1 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 12:30 | | 1.015 | 6.10 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/12/22 10:58 | | 10.15 | 334 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 15:06 | | 1.015 | 0.139 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 15:06 | | 1.015 | 4.82 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 15:06 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 15:06 | | 1.015 | 0.0600 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 15:06 | | 1.015 | 1.36 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 15:06 | | 1 | 12.2 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 15:06 | | 1.015 | 5.72 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/16/22 13:47 | | 101.5 | 358 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | 0.0604 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | 0.00109 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | 0.0956 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | 0.000257 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | 0.00684 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | 0.00526 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | 4.32 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-43H

Location Code: WMWGORAP
Collected: 8/3/22 13:05
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14533

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 15:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | 0.0254 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | 0.000967 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | 0.0864 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | 0.000253 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | 0.0000954 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | 0.00595 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | 0.00471 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | 3.88 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 11:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 21:03 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 14:05 | 8/10/22 14:05 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 277 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/8/22 11:40 | 8/10/22 12:30 | | 1 | 864 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 273 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 3.97 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 01:20 | 8/10/22 01:20 | | 1 | 4.09 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-43H

Location Code: WMWGORAP
Collected: 8/3/22 13:05
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14533

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:17 | 8/8/22 11:17 | | 8 | 84.5 | mg/L | 4.00 | 8 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:40 | 8/8/22 14:40 | | 1 | 0.173 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 09:08 | 8/5/22 09:08 | | 16 | 250 | mg/L | 9.6 | 32 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 8/3/22 13:02 | 8/3/22 13:02 | | | 1460.14 | uS/cm | | | FA |
| pH | 8/3/22 13:02 | 8/3/22 13:02 | | | 8.51 | SU | | | FA |
| Temperature | 8/3/22 13:02 | 8/3/22 13:02 | | | 21.71 | C | | | FA |
| Turbidity | 8/3/22 13:02 | 8/3/22 13:02 | | | 1.92 | NTU | | | FA |
| Sulfide | 8/3/22 13:02 | 8/3/22 13:02 | | | 10 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 13:05

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-43H

Laboratory ID Number: BC14533

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.111 | 0.109 | 0.102 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.112 | 0.114 | 0.109 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0948 | 0.0972 | 0.0923 | 0.0850 to 0.115 | 94.8 | 70.0 to 130 | 2.50 | 20.0 |
| BC14539 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.106 | 0.107 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14539 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.100 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.337 | 0.336 | 0.0974 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.297 | 20.0 |
| BC14539 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.346 | 0.349 | 0.107 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.863 | 20.0 |
| BC14539 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.109 | 0.111 | 0.101 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.111 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.67 | 20.0 |
| BC14539 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.43 | 1.45 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.39 | 20.0 |
| BC14539 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.42 | 1.41 | 1.01 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.707 | 20.0 |
| BC14539 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.0995 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14539 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.102 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14539 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 18.4 | 18.8 | 5.11 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 2.15 | 20.0 |
| BC14539 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 19.9 | 19.8 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.504 | 20.0 |
| BC14534 | Chloride | mg/L | 0.0158 | 1.00 | 10.0 | 14.5 | 14.6 | 10.0 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.687 | 20.0 |
| BC14539 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.104 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.101 | 0.104 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC14539 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14534 | Fluoride | mg/L | -0.0211 | 0.125 | 2.50 | 2.70 | 2.71 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.370 | 20.0 |
| BC14539 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.350 | 0.350 | 0.199 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.417 | 0.415 | 0.207 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.481 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 13:05

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-43H

Laboratory ID Number: BC14533

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.263 | 0.265 | 0.204 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 0.758 | 20.0 |
| BC14539 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.315 | 0.312 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 9.35 | 9.53 | 5.15 | 4.25 to 5.75 | 95.4 | 70.0 to 130 | 1.91 | 20.0 |
| BC14539 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 10.7 | 10.5 | 5.21 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.89 | 20.0 |
| BC14539 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.113 | 0.112 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.889 | 20.0 |
| BC14539 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.112 | 0.114 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00408 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.24 | 20.0 |
| BC14539 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.136 | 0.139 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.18 | 20.0 |
| BC14539 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.138 | 0.143 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.56 | 20.0 |
| BC14539 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 11.3 | 11.5 | 9.98 | 8.50 to 11.5 | 99.6 | 70.0 to 130 | 1.75 | 20.0 |
| BC14539 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 11.5 | 11.8 | 10.3 | 8.50 to 11.5 | 100 | 70.0 to 130 | 2.58 | 20.0 |
| BC14539 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.102 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14539 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.106 | 0.110 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 3.70 | 20.0 |
| BC14539 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 10.5 | 10.6 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 11.0 | 10.9 | 1.03 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.913 | 20.0 |
| BC14539 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 178 | 155 | 5.10 | 4.25 to 5.75 | 380 | 70.0 to 130 | 13.8 | 20.0 |
| BC14539 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 151 | 150 | 5.06 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.664 | 20.0 |
| BC14539 | Sulfate | mg/L | 0.349 | 2.0 | 20.0 | 46.0 | 46.1 | 19.8 | 18.0 to 22.0 | 88.5 | 80.0 to 120 | 0.217 | 20.0 |
| BC14539 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC14539 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Total Organic Carbon | mg/L | 0.191 | 1.00 | 10.0 | 11.1 | 11.0 | 24.8 | | 99.2 | 80.0 to 120 | 0.905 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 13:05

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-43H

Laboratory ID Number: BC14533

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14539 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.02 | 0.007 | 2.18 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC14526 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 315 | 51.0 | 40.0 to 60.0 | | | 0.637 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-8

Location Code: WMWGORAP
Collected: 8/2/22 10:10
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14534

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 12:37 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 12:37 | | 1.015 | 5.28 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 12:37 | | 1.015 | 0.342 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 12:37 | | 1.015 | 0.0100 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Total | 8/9/22 06:35 | 8/10/22 14:32 | | 1.015 | 8.33 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 12:37 | | 1 | 38.7 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 12:37 | | 1.015 | 18.1 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:35 | 8/9/22 12:37 | | 1.015 | 11.4 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 15:12 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 15:12 | | 1.015 | 4.79 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 15:12 | | 1.015 | 0.132 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 15:12 | | 1.015 | 0.00769 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 15:12 | | 1.015 | 6.94 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 15:12 | | 1 | 36.8 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 15:12 | | 1.015 | 17.2 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/15/22 15:12 | | 1.015 | 9.96 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | 0.0632 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | 0.000160 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | 0.0116 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | 0.000629 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | 0.00124 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | 0.0000833 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | 0.150 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | 0.808 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-8

Location Code: WMWGORAP
Collected: 8/2/22 10:10
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14534

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 15:34 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | 0.0106 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | 0.000306 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | 0.00133 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | 0.0000838 | mg/L | 0.000068 | 0.000203 | J |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | 0.180 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | 0.800 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 11:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 21:06 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 14:07 | 8/10/22 14:07 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 61.1 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 97.3 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | 60.8 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/8/22 13:23 | 8/8/22 15:40 | | 1 | Not Detected | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 01:41 | 8/10/22 01:41 | | 1 | 2.82 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-8

Location Code: WMWGORAP
Collected: 8/2/22 10:10
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14534

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:08 | 8/8/22 11:08 | | 1 | 4.35 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:42 | 8/8/22 14:42 | | 1 | 0.0815 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 08:58 | 8/5/22 08:58 | | 1 | 4.18 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/2/22 10:07 | 8/2/22 10:07 | | | 133.94 | uS/cm | | | FA |
| pH | 8/2/22 10:07 | 8/2/22 10:07 | | | 5.78 | SU | | | FA |
| Temperature | 8/2/22 10:07 | 8/2/22 10:07 | | | 21.60 | C | | | FA |
| Turbidity | 8/2/22 10:07 | 8/2/22 10:07 | | | 1.32 | NTU | | | FA |
| Sulfide | 8/2/22 10:07 | 8/2/22 10:07 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 10:10

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: BC14534

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.111 | 0.109 | 0.102 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.112 | 0.114 | 0.109 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0948 | 0.0972 | 0.0923 | 0.0850 to 0.115 | 94.8 | 70.0 to 130 | 2.50 | 20.0 |
| BC14539 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.106 | 0.107 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14539 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.100 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.337 | 0.336 | 0.0974 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.297 | 20.0 |
| BC14539 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.346 | 0.349 | 0.107 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.863 | 20.0 |
| BC14539 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.109 | 0.111 | 0.101 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.111 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.67 | 20.0 |
| BC14539 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.43 | 1.45 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.39 | 20.0 |
| BC14539 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.42 | 1.41 | 1.01 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.707 | 20.0 |
| BC14539 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.0995 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14539 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.102 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14539 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 18.4 | 18.8 | 5.11 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 2.15 | 20.0 |
| BC14539 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 19.9 | 19.8 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.504 | 20.0 |
| BC14534 | Chloride | mg/L | 0.0158 | 1.00 | 10.0 | 14.5 | 14.6 | 10.0 | 9.00 to 11.0 | 102 | 80.0 to 120 | 0.687 | 20.0 |
| BC14539 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.104 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.101 | 0.104 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC14539 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14534 | Fluoride | mg/L | -0.0211 | 0.125 | 2.50 | 2.70 | 2.71 | 2.64 | 2.25 to 2.75 | 105 | 80.0 to 120 | 0.370 | 20.0 |
| BC14539 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.350 | 0.350 | 0.199 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.417 | 0.415 | 0.207 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.481 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 10:10

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: BC14534

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.263 | 0.265 | 0.204 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 0.758 | 20.0 |
| BC14539 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.315 | 0.312 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 9.35 | 9.53 | 5.15 | 4.25 to 5.75 | 95.4 | 70.0 to 130 | 1.91 | 20.0 |
| BC14539 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 10.7 | 10.5 | 5.21 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.89 | 20.0 |
| BC14539 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.113 | 0.112 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.889 | 20.0 |
| BC14539 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.112 | 0.114 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00408 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.24 | 20.0 |
| BC14539 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.136 | 0.139 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.18 | 20.0 |
| BC14539 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.138 | 0.143 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.56 | 20.0 |
| BC14539 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 11.3 | 11.5 | 9.98 | 8.50 to 11.5 | 99.6 | 70.0 to 130 | 1.75 | 20.0 |
| BC14539 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 11.5 | 11.8 | 10.3 | 8.50 to 11.5 | 100 | 70.0 to 130 | 2.58 | 20.0 |
| BC14539 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.102 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14539 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.106 | 0.110 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 3.70 | 20.0 |
| BC14539 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 10.5 | 10.6 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 11.0 | 10.9 | 1.03 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.913 | 20.0 |
| BC14539 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 178 | 155 | 5.10 | 4.25 to 5.75 | 380 | 70.0 to 130 | 13.8 | 20.0 |
| BC14539 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 151 | 150 | 5.06 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.664 | 20.0 |
| BC14539 | Sulfate | mg/L | 0.349 | 2.0 | 20.0 | 46.0 | 46.1 | 19.8 | 18.0 to 22.0 | 88.5 | 80.0 to 120 | 0.217 | 20.0 |
| BC14539 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC14539 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Total Organic Carbon | mg/L | 0.191 | 1.00 | 10.0 | 11.1 | 11.0 | 24.8 | | 99.2 | 80.0 to 120 | 0.905 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 10:10

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-8

Laboratory ID Number: BC14534

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BC14534 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 60.2 | 50.9 | 45.0 to 55.0 | | | 1.48 | 10.0 |
| BC14539 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.02 | 0.007 | 2.18 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC14539 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 375 | 45.0 | 40.0 to 60.0 | | | 0.535 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-40H

Location Code: WMWGORAP
Collected: 8/2/22 12:40
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14535

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 12:45 | | 1.015 | 0.0327 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/9/22 06:37 | 8/11/22 11:15 | | 10.15 | 211 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 12:45 | | 1.015 | 2.60 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 12:45 | | 1.015 | 0.0705 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:37 | 8/12/22 11:05 | | 10.15 | 95.9 | mg/L | 0.21315 | 4.06 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 12:45 | | 1 | 26.5 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 12:45 | | 1.015 | 12.4 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/12/22 11:05 | | 10.15 | 66.9 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 15:19 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/16/22 11:55 | | 10.15 | 240 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 15:19 | | 1.015 | 2.42 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 15:19 | | 1.015 | 0.0598 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/16/22 11:55 | | 10.15 | 109 | mg/L | 0.21315 | 4.06 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 15:19 | | 1 | 25.9 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 15:19 | | 1.015 | 12.1 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/16/22 11:55 | | 10.15 | 72.0 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | 0.000294 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | 0.0306 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | 0.000337 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | 0.000206 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | 0.346 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | 0.00114 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | 4.57 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-40H

Location Code: WMWGORAP
Collected: 8/2/22 12:40
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14535

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 15:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | 0.000230 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | 0.0280 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | 0.000234 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | 0.000180 | mg/L | 0.000068 | 0.000203 | J |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | 0.327 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | 0.000929 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | 4.35 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 11:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 21:10 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 14:08 | 8/10/22 14:08 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 220 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 1220 | mg/L | | 75.8 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 218 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 2.30 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 01:59 | 8/10/22 01:59 | | 1 | 1.79 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-40H

Location Code: WMWGORAP

Collected: 8/2/22 12:40

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14535

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:29 | 8/8/22 11:29 | | 1 | 12.7 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:54 | 8/8/22 14:54 | | 1 | 0.151 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 09:10 | 8/5/22 09:10 | | 32 | 732 | mg/L | 19.2 | 64 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/2/22 12:36 | 8/2/22 12:36 | | | 1620.70 | uS/cm | | | FA |
| pH | 8/2/22 12:36 | 8/2/22 12:36 | | | 6.47 | SU | | | FA |
| Temperature | 8/2/22 12:36 | 8/2/22 12:36 | | | 23.04 | C | | | FA |
| Turbidity | 8/2/22 12:36 | 8/2/22 12:36 | | | 0.76 | NTU | | | FA |
| Sulfide | 8/2/22 12:36 | 8/2/22 12:36 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 12:40

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-40H

Laboratory ID Number: BC14535

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.111 | 0.109 | 0.102 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.112 | 0.114 | 0.109 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0948 | 0.0972 | 0.0923 | 0.0850 to 0.115 | 94.8 | 70.0 to 130 | 2.50 | 20.0 |
| BC14539 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.106 | 0.107 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14539 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.100 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.337 | 0.336 | 0.0974 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.297 | 20.0 |
| BC14539 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.346 | 0.349 | 0.107 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.863 | 20.0 |
| BC14539 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.109 | 0.111 | 0.101 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.111 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.67 | 20.0 |
| BC14539 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.43 | 1.45 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.39 | 20.0 |
| BC14539 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.42 | 1.41 | 1.01 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.707 | 20.0 |
| BC14539 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.0995 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14539 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.102 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14539 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 18.4 | 18.8 | 5.11 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 2.15 | 20.0 |
| BC14539 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 19.9 | 19.8 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.504 | 20.0 |
| BC14540 | Chloride | mg/L | -0.00232 | 1.00 | 10.0 | 15.7 | 15.8 | 10.1 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.635 | 20.0 |
| BC14539 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.104 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.101 | 0.104 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC14539 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14540 | Fluoride | mg/L | -0.0396 | 0.125 | 2.50 | 2.98 | 3.01 | 2.75 | 2.25 to 2.75 | 110 | 80.0 to 120 | 1.00 | 20.0 |
| BC14539 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.350 | 0.350 | 0.199 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.417 | 0.415 | 0.207 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.481 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 12:40

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-40H

Laboratory ID Number: BC14535

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.263 | 0.265 | 0.204 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 0.758 | 20.0 |
| BC14539 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.315 | 0.312 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 9.35 | 9.53 | 5.15 | 4.25 to 5.75 | 95.4 | 70.0 to 130 | 1.91 | 20.0 |
| BC14539 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 10.7 | 10.5 | 5.21 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.89 | 20.0 |
| BC14539 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.113 | 0.112 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.889 | 20.0 |
| BC14539 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.112 | 0.114 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00408 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.24 | 20.0 |
| BC14539 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.136 | 0.139 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.18 | 20.0 |
| BC14539 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.138 | 0.143 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.56 | 20.0 |
| BC14539 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 11.3 | 11.5 | 9.98 | 8.50 to 11.5 | 99.6 | 70.0 to 130 | 1.75 | 20.0 |
| BC14539 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 11.5 | 11.8 | 10.3 | 8.50 to 11.5 | 100 | 70.0 to 130 | 2.58 | 20.0 |
| BC14539 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.102 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14539 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.106 | 0.110 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 3.70 | 20.0 |
| BC14539 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 10.5 | 10.6 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 11.0 | 10.9 | 1.03 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.913 | 20.0 |
| BC14539 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 178 | 155 | 5.10 | 4.25 to 5.75 | 380 | 70.0 to 130 | 13.8 | 20.0 |
| BC14539 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 151 | 150 | 5.06 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.664 | 20.0 |
| BC14539 | Sulfate | mg/L | 0.349 | 2.0 | 20.0 | 46.0 | 46.1 | 19.8 | 18.0 to 22.0 | 88.5 | 80.0 to 120 | 0.217 | 20.0 |
| BC14539 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC14539 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Total Organic Carbon | mg/L | 0.191 | 1.00 | 10.0 | 11.1 | 11.0 | 24.8 | | 99.2 | 80.0 to 120 | 0.905 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 12:40

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-40H

Laboratory ID Number: BC14535

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BC14536 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 238 | 50.2 | 45.0 to 55.0 | | | 0.837 | 10.0 |
| BC14539 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.02 | 0.007 | 2.18 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC14539 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 375 | 45.0 | 40.0 to 60.0 | | | 0.535 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-05R

Location Code: WMWGORAP
Collected: 8/2/22 15:40
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14536

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 12:52 | | 1.015 | 0.0384 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/9/22 06:37 | 8/11/22 11:18 | | 10.15 | 107 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 12:52 | | 1.015 | 1.50 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 12:52 | | 1.015 | 0.0827 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:37 | 8/12/22 11:12 | | 10.15 | 41.1 | mg/L | 0.21315 | 4.06 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 12:52 | | 1 | 26.8 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 12:52 | | 1.015 | 12.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/12/22 11:12 | | 10.15 | 113 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 15:25 | | 1.015 | 0.0360 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/16/22 12:02 | | 10.15 | 130 | mg/L | 0.70035 | 4.06 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 15:25 | | 1.015 | 1.41 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 15:25 | | 1.015 | 0.0678 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 15:25 | | 1.015 | 37.7 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 15:25 | | 1 | 25.9 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 15:25 | | 1.015 | 12.1 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/16/22 12:02 | | 10.15 | 130 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | 0.000325 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | 0.0605 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | 0.000360 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | 0.139 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | 0.00237 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | 9.60 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-05R

Location Code: WMWGORAP
Collected: 8/2/22 15:40
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14536

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 15:48 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | 0.000209 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | 0.0630 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | 0.000228 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | 0.131 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | 0.00215 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | 8.87 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | 0.00486 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 11:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 21:14 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 14:10 | 8/10/22 14:10 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 240 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 788 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 236 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/12/22 09:23 | 8/12/22 11:04 | | 1 | 4.03 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 02:21 | 8/10/22 02:21 | | 1 | 2.56 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-05R

Location Code: WMWGORAP

Collected: 8/2/22 15:40

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14536

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:38 | 8/8/22 11:38 | | 4 | 54.5 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:56 | 8/8/22 14:56 | | 1 | 0.144 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 09:11 | 8/5/22 09:11 | | 16 | 294 | mg/L | 9.6 | 32 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/2/22 15:35 | 8/2/22 15:35 | | | 1244.19 | uS/cm | | | FA |
| pH | 8/2/22 15:35 | 8/2/22 15:35 | | | 6.72 | SU | | | FA |
| Temperature | 8/2/22 15:35 | 8/2/22 15:35 | | | 21.64 | C | | | FA |
| Turbidity | 8/2/22 15:35 | 8/2/22 15:35 | | | 0.84 | NTU | | | FA |
| Sulfide | 8/2/22 15:35 | 8/2/22 15:35 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 8/2/22 15:40
Customer ID:
Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-05R

Laboratory ID Number: BC14536

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.111 | 0.109 | 0.102 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.112 | 0.114 | 0.109 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0948 | 0.0972 | 0.0923 | 0.0850 to 0.115 | 94.8 | 70.0 to 130 | 2.50 | 20.0 |
| BC14539 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.106 | 0.107 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14539 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.100 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.337 | 0.336 | 0.0974 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.297 | 20.0 |
| BC14539 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.346 | 0.349 | 0.107 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.863 | 20.0 |
| BC14539 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.109 | 0.111 | 0.101 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.111 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.67 | 20.0 |
| BC14539 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.43 | 1.45 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.39 | 20.0 |
| BC14539 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.42 | 1.41 | 1.01 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.707 | 20.0 |
| BC14539 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.0995 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14539 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.102 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14539 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 18.4 | 18.8 | 5.11 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 2.15 | 20.0 |
| BC14539 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 19.9 | 19.8 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.504 | 20.0 |
| BC14540 | Chloride | mg/L | -0.00232 | 1.00 | 10.0 | 15.7 | 15.8 | 10.1 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.635 | 20.0 |
| BC14539 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.104 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.101 | 0.104 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC14539 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14540 | Fluoride | mg/L | -0.0396 | 0.125 | 2.50 | 2.98 | 3.01 | 2.75 | 2.25 to 2.75 | 110 | 80.0 to 120 | 1.00 | 20.0 |
| BC14539 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.350 | 0.350 | 0.199 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.417 | 0.415 | 0.207 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.481 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 15:40

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-05R

Laboratory ID Number: BC14536

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.263 | 0.265 | 0.204 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 0.758 | 20.0 |
| BC14539 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.315 | 0.312 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 9.35 | 9.53 | 5.15 | 4.25 to 5.75 | 95.4 | 70.0 to 130 | 1.91 | 20.0 |
| BC14539 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 10.7 | 10.5 | 5.21 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.89 | 20.0 |
| BC14539 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.113 | 0.112 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.889 | 20.0 |
| BC14539 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.112 | 0.114 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00408 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.24 | 20.0 |
| BC14539 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.136 | 0.139 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.18 | 20.0 |
| BC14539 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.138 | 0.143 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.56 | 20.0 |
| BC14539 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 11.3 | 11.5 | 9.98 | 8.50 to 11.5 | 99.6 | 70.0 to 130 | 1.75 | 20.0 |
| BC14539 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 11.5 | 11.8 | 10.3 | 8.50 to 11.5 | 100 | 70.0 to 130 | 2.58 | 20.0 |
| BC14539 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.102 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14539 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.106 | 0.110 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 3.70 | 20.0 |
| BC14539 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 10.5 | 10.6 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 11.0 | 10.9 | 1.03 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.913 | 20.0 |
| BC14539 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 178 | 155 | 5.10 | 4.25 to 5.75 | 380 | 70.0 to 130 | 13.8 | 20.0 |
| BC14539 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 151 | 150 | 5.06 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.664 | 20.0 |
| BC14539 | Sulfate | mg/L | 0.349 | 2.0 | 20.0 | 46.0 | 46.1 | 19.8 | 18.0 to 22.0 | 88.5 | 80.0 to 120 | 0.217 | 20.0 |
| BC14539 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC14539 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Total Organic Carbon | mg/L | 0.191 | 1.00 | 10.0 | 11.1 | 11.0 | 24.8 | | 99.2 | 80.0 to 120 | 0.905 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/2/22 15:40

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-05R

Laboratory ID Number: BC14536

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|-----|-------------|-------|------------|
| BC14536 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 238 | 50.2 | 45.0 to 55.0 | | | 0.837 | 10.0 |
| BC14539 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.02 | 0.007 | 2.18 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC14539 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 375 | 45.0 | 40.0 to 60.0 | | | 0.535 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R

Location Code: WMWGORAP
Collected: 8/3/22 10:08
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14537

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------|---------------------|-------|--------------|-------------------------------------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 12:59 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 12:59 | | 1.015 | 30.8 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/9/22 06:37 | 8/11/22 11:21 | | 10.15 | 4.18 | mg/L | 0.08120 | 0.406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 12:59 | | 1.015 | 0.00863 | mg/L | 0.007105 | 0.01999956 | J |
| * Magnesium, Total | 8/9/22 06:35 | 8/10/22 14:38 | | 1.015 | 7.71 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 12:59 | | 1 | 25.3 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 12:59 | | 1.015 | 11.8 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:35 | 8/9/22 12:59 | | 1.015 | 13.3 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 15:31 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 15:31 | | 1.015 | 30.0 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 15:31 | | 1.015 | 4.04 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 15:31 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 15:31 | | 1.015 | 6.89 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 15:31 | | 1 | 24.6 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 15:31 | | 1.015 | 11.5 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/15/22 15:31 | | 1.015 | 11.7 | mg/L | 0.03045 | 0.406 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | 0.000429 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | 0.0895 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | 0.000304 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | 0.000564 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | 0.184 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | 0.000529 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | 1.33 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R

Location Code: WMWGORAP
Collected: 8/3/22 10:08
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14537

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 15:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | 0.000377 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | 0.0874 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | 0.000564 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | 0.175 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | 0.000411 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | 1.27 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 11:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 21:18 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 14:12 | 8/10/22 14:12 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 101 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 167 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 100 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 0.52 | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 02:41 | 8/10/22 02:41 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R

Location Code: WMWGORAP

Collected: 8/3/22 10:08

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14537

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:31 | 8/8/22 11:31 | | 1 | 4.34 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:57 | 8/8/22 14:57 | | 1 | 0.0924 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 09:01 | 8/5/22 09:01 | | 1 | 21.2 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/3/22 10:05 | 8/3/22 10:05 | | | 257.58 | uS/cm | | | FA |
| pH | 8/3/22 10:05 | 8/3/22 10:05 | | | 6.46 | SU | | | FA |
| Temperature | 8/3/22 10:05 | 8/3/22 10:05 | | | 17.68 | C | | | FA |
| Turbidity | 8/3/22 10:05 | 8/3/22 10:05 | | | 2.46 | NTU | | | FA |
| Sulfide | 8/3/22 10:05 | 8/3/22 10:05 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 10:08

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-18R

Laboratory ID Number: BC14537

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.111 | 0.109 | 0.102 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.112 | 0.114 | 0.109 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0948 | 0.0972 | 0.0923 | 0.0850 to 0.115 | 94.8 | 70.0 to 130 | 2.50 | 20.0 |
| BC14539 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.106 | 0.107 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14539 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.100 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.337 | 0.336 | 0.0974 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.297 | 20.0 |
| BC14539 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.346 | 0.349 | 0.107 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.863 | 20.0 |
| BC14539 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.109 | 0.111 | 0.101 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.111 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.67 | 20.0 |
| BC14539 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.43 | 1.45 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.39 | 20.0 |
| BC14539 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.42 | 1.41 | 1.01 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.707 | 20.0 |
| BC14539 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.0995 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14539 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.102 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14539 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 18.4 | 18.8 | 5.11 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 2.15 | 20.0 |
| BC14539 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 19.9 | 19.8 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.504 | 20.0 |
| BC14540 | Chloride | mg/L | -0.00232 | 1.00 | 10.0 | 15.7 | 15.8 | 10.1 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.635 | 20.0 |
| BC14539 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.104 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.101 | 0.104 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC14539 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14540 | Fluoride | mg/L | -0.0396 | 0.125 | 2.50 | 2.98 | 3.01 | 2.75 | 2.25 to 2.75 | 110 | 80.0 to 120 | 1.00 | 20.0 |
| BC14539 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.350 | 0.350 | 0.199 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.417 | 0.415 | 0.207 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.481 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 10:08

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-18R

Laboratory ID Number: BC14537

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.263 | 0.265 | 0.204 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 0.758 | 20.0 |
| BC14539 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.315 | 0.312 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 9.35 | 9.53 | 5.15 | 4.25 to 5.75 | 95.4 | 70.0 to 130 | 1.91 | 20.0 |
| BC14539 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 10.7 | 10.5 | 5.21 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.89 | 20.0 |
| BC14539 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.113 | 0.112 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.889 | 20.0 |
| BC14539 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.112 | 0.114 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00408 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.24 | 20.0 |
| BC14539 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.136 | 0.139 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.18 | 20.0 |
| BC14539 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.138 | 0.143 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.56 | 20.0 |
| BC14539 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 11.3 | 11.5 | 9.98 | 8.50 to 11.5 | 99.6 | 70.0 to 130 | 1.75 | 20.0 |
| BC14539 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 11.5 | 11.8 | 10.3 | 8.50 to 11.5 | 100 | 70.0 to 130 | 2.58 | 20.0 |
| BC14539 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.102 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14539 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.106 | 0.110 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 3.70 | 20.0 |
| BC14539 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 10.5 | 10.6 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 11.0 | 10.9 | 1.03 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.913 | 20.0 |
| BC14539 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 178 | 155 | 5.10 | 4.25 to 5.75 | 380 | 70.0 to 130 | 13.8 | 20.0 |
| BC14539 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 151 | 150 | 5.06 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.664 | 20.0 |
| BC14539 | Sulfate | mg/L | 0.349 | 2.0 | 20.0 | 46.0 | 46.1 | 19.8 | 18.0 to 22.0 | 88.5 | 80.0 to 120 | 0.217 | 20.0 |
| BC14539 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC14539 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Total Organic Carbon | mg/L | 0.191 | 1.00 | 10.0 | 11.1 | 11.0 | 24.8 | | 99.2 | 80.0 to 120 | 0.905 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 10:08

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-18R

Laboratory ID Number: BC14537

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|---------------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14539 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.02 | 0.007 | 2.18 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC14539 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 375 | 45.0 | 40.0 to 60.0 | | | 0.535 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R DUP

Location Code: WMWGORAP
Collected: 8/3/22 10:08
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14538

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 13:06 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 13:06 | | 1.015 | 30.8 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/9/22 06:37 | 8/11/22 11:25 | | 10.15 | 4.13 | mg/L | 0.08120 | 0.406 | | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 13:06 | | 1.015 | 0.00862 | mg/L | 0.007105 | 0.01999956 | J | |
| * Magnesium, Total | 8/9/22 06:35 | 8/10/22 14:45 | | 1.015 | 7.80 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 13:06 | | 1 | 25.0 | mg/L | | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 13:06 | | 1.015 | 11.7 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/9/22 06:35 | 8/9/22 13:06 | | 1.015 | 13.4 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 15:38 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 15:38 | | 1.015 | 29.6 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 15:38 | | 1.015 | 3.96 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 15:38 | | 1.015 | 0.00721 | mg/L | 0.007105 | 0.01999956 | J | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 15:38 | | 1.015 | 6.92 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 15:38 | | 1 | 24.4 | mg/L | | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 15:38 | | 1.015 | 11.4 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/15/22 15:38 | | 1.015 | 12.0 | mg/L | 0.03045 | 0.406 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | 0.000442 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | 0.0892 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | 0.000307 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | 0.000582 | mg/L | 0.000068 | 0.000203 | | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | 0.182 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | 0.000500 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | 1.38 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R DUP

Location Code: WMWGORAP
Collected: 8/3/22 10:08
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14538

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 16:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | 0.000420 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | 0.0877 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | 0.000239 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | 0.000525 | mg/L | 0.000068 | 0.000203 | |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | 0.179 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | 0.000512 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | 1.33 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 11:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 21:22 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 14:14 | 8/10/22 14:14 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 101 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 162 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 101 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | Not Detected | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 03:01 | 8/10/22 03:01 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18R DUP

Location Code: WMWGORAP

Collected: 8/3/22 10:08

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14538

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:32 | 8/8/22 11:32 | | 1 | 4.34 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:58 | 8/8/22 14:58 | | 1 | 0.0797 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 09:02 | 8/5/22 09:02 | | 1 | 20.7 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/3/22 10:05 | 8/3/22 10:05 | | | 257.58 | uS/cm | | | FA |
| pH | 8/3/22 10:05 | 8/3/22 10:05 | | | 6.46 | SU | | | FA |
| Temperature | 8/3/22 10:05 | 8/3/22 10:05 | | | 17.68 | C | | | FA |
| Turbidity | 8/3/22 10:05 | 8/3/22 10:05 | | | 2.46 | NTU | | | FA |
| Sulfide | 8/3/22 10:05 | 8/3/22 10:05 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 10:08

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-18R DUP

Laboratory ID Number: BC14538

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.111 | 0.109 | 0.102 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.112 | 0.114 | 0.109 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0948 | 0.0972 | 0.0923 | 0.0850 to 0.115 | 94.8 | 70.0 to 130 | 2.50 | 20.0 |
| BC14539 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.106 | 0.107 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14539 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.100 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.337 | 0.336 | 0.0974 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.297 | 20.0 |
| BC14539 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.346 | 0.349 | 0.107 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.863 | 20.0 |
| BC14539 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.109 | 0.111 | 0.101 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.111 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.67 | 20.0 |
| BC14539 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.43 | 1.45 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.39 | 20.0 |
| BC14539 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.42 | 1.41 | 1.01 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.707 | 20.0 |
| BC14539 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.0995 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14539 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.102 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14539 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 18.4 | 18.8 | 5.11 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 2.15 | 20.0 |
| BC14539 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 19.9 | 19.8 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.504 | 20.0 |
| BC14540 | Chloride | mg/L | -0.00232 | 1.00 | 10.0 | 15.7 | 15.8 | 10.1 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.635 | 20.0 |
| BC14539 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.104 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.101 | 0.104 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC14539 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14540 | Fluoride | mg/L | -0.0396 | 0.125 | 2.50 | 2.98 | 3.01 | 2.75 | 2.25 to 2.75 | 110 | 80.0 to 120 | 1.00 | 20.0 |
| BC14539 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.350 | 0.350 | 0.199 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.417 | 0.415 | 0.207 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.481 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 10:08

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-18R DUP

Laboratory ID Number: BC14538

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.263 | 0.265 | 0.204 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 0.758 | 20.0 |
| BC14539 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.315 | 0.312 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 9.35 | 9.53 | 5.15 | 4.25 to 5.75 | 95.4 | 70.0 to 130 | 1.91 | 20.0 |
| BC14539 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 10.7 | 10.5 | 5.21 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.89 | 20.0 |
| BC14539 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.113 | 0.112 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.889 | 20.0 |
| BC14539 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.112 | 0.114 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00408 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.24 | 20.0 |
| BC14539 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.136 | 0.139 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.18 | 20.0 |
| BC14539 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.138 | 0.143 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.56 | 20.0 |
| BC14539 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 11.3 | 11.5 | 9.98 | 8.50 to 11.5 | 99.6 | 70.0 to 130 | 1.75 | 20.0 |
| BC14539 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 11.5 | 11.8 | 10.3 | 8.50 to 11.5 | 100 | 70.0 to 130 | 2.58 | 20.0 |
| BC14539 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.102 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14539 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.106 | 0.110 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 3.70 | 20.0 |
| BC14539 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 10.5 | 10.6 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 11.0 | 10.9 | 1.03 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.913 | 20.0 |
| BC14539 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 178 | 155 | 5.10 | 4.25 to 5.75 | 380 | 70.0 to 130 | 13.8 | 20.0 |
| BC14539 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 151 | 150 | 5.06 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.664 | 20.0 |
| BC14539 | Sulfate | mg/L | 0.349 | 2.0 | 20.0 | 46.0 | 46.1 | 19.8 | 18.0 to 22.0 | 88.5 | 80.0 to 120 | 0.217 | 20.0 |
| BC14539 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC14539 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Total Organic Carbon | mg/L | 0.191 | 1.00 | 10.0 | 11.1 | 11.0 | 24.8 | | 99.2 | 80.0 to 120 | 0.905 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 10:08

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-18R DUP

Laboratory ID Number: BC14538

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14539 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.02 | 0.007 | 2.18 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC14539 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 375 | 45.0 | 40.0 to 60.0 | | | 0.535 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-29H

Location Code: WMWGORAP
Collected: 8/3/22 12:03
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14539

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 13:12 | | 1.015 | 0.399 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/9/22 06:35 | 8/9/22 13:12 | | 1.015 | 14.5 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 13:12 | | 1.015 | 0.204 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 13:12 | | 1.015 | 0.0811 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/9/22 06:35 | 8/10/22 14:52 | | 1.015 | 5.10 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 13:12 | | 1 | 21.4 | mg/L | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 13:12 | | 1.015 | 10.0 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/9/22 06:37 | 8/12/22 11:18 | | 10.15 | 143 | mg/L | 0.3045 | 4.06 | RA |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/15/22 15:44 | | 1.015 | 0.408 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/15/22 15:44 | | 1.015 | 13.7 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/15/22 15:44 | | 1.015 | 0.150 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/15/22 15:44 | | 1.015 | 0.0660 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/15/22 15:44 | | 1.015 | 4.58 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/15/22 15:44 | | 1 | 20.3 | mg/L | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/15/22 15:44 | | 1.015 | 9.49 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/16/22 12:08 | | 10.15 | 159 | mg/L | 0.3045 | 4.06 | RA |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | 0.00816 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | 0.00248 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | 0.248 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | 0.000265 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | 0.00933 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | 0.0341 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | 1.45 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-29H

Location Code: WMWGORAP
Collected: 8/3/22 12:03
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14539

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 16:10 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | 0.00240 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | 0.236 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | 0.000263 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | 0.00884 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | 0.0344 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | 1.34 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 12:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 21:26 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 14:16 | 8/10/22 14:16 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 285 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/4/22 11:48 | 8/8/22 13:35 | | 1 | 373 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 280 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 4.48 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 03:22 | 8/10/22 03:22 | | 1 | 1.18 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-29H

Location Code: WMWGORAP

Collected: 8/3/22 12:03

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14539

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:34 | 8/8/22 11:34 | | 1 | 7.10 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 14:59 | 8/8/22 14:59 | | 1 | 0.359 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 09:04 | 8/5/22 09:04 | | 1 | 28.3 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/3/22 11:59 | 8/3/22 11:59 | | | 625.07 | uS/cm | | | FA |
| pH | 8/3/22 11:59 | 8/3/22 11:59 | | | 7.83 | SU | | | FA |
| Temperature | 8/3/22 11:59 | 8/3/22 11:59 | | | 19.38 | C | | | FA |
| Turbidity | 8/3/22 11:59 | 8/3/22 11:59 | | | 1.1 | NTU | | | FA |
| Sulfide | 8/3/22 11:59 | 8/3/22 11:59 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 12:03

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: BC14539

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Aluminum, Dissolved | mg/L | 0.000376 | 0.010 | 0.100 | 0.111 | 0.109 | 0.102 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Aluminum, Total | mg/L | 0.00120 | 0.010 | 0.100 | 0.112 | 0.114 | 0.109 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Antimony, Dissolved | mg/L | 0.000268 | 0.00100 | 0.100 | 0.0948 | 0.0972 | 0.0923 | 0.0850 to 0.115 | 94.8 | 70.0 to 130 | 2.50 | 20.0 |
| BC14539 | Antimony, Total | mg/L | 0.000187 | 0.00100 | 0.100 | 0.106 | 0.107 | 0.107 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14539 | Arsenic, Dissolved | mg/L | 0.0000091 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.100 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Arsenic, Total | mg/L | 0.0000105 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Barium, Dissolved | mg/L | 0.0000252 | 0.00100 | 0.100 | 0.337 | 0.336 | 0.0974 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.297 | 20.0 |
| BC14539 | Barium, Total | mg/L | 0.0000337 | 0.00100 | 0.100 | 0.346 | 0.349 | 0.107 | 0.0850 to 0.115 | 98.0 | 70.0 to 130 | 0.863 | 20.0 |
| BC14539 | Beryllium, Dissolved | mg/L | 0.0000447 | 0.000880 | 0.100 | 0.109 | 0.111 | 0.101 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.82 | 20.0 |
| BC14539 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.107 | 0.111 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.67 | 20.0 |
| BC14539 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.43 | 1.45 | 0.995 | 0.850 to 1.15 | 102 | 70.0 to 130 | 1.39 | 20.0 |
| BC14539 | Boron, Total | mg/L | -6.150E-05 | 0.0650 | 1.00 | 1.42 | 1.41 | 1.01 | 0.850 to 1.15 | 102 | 70.0 to 130 | 0.707 | 20.0 |
| BC14539 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.0995 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14539 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.102 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC14539 | Calcium, Dissolved | mg/L | -0.0165 | 0.152 | 5.00 | 18.4 | 18.8 | 5.11 | 4.25 to 5.75 | 94.0 | 70.0 to 130 | 2.15 | 20.0 |
| BC14539 | Calcium, Total | mg/L | -0.00547 | 0.152 | 5.00 | 19.9 | 19.8 | 5.16 | 4.25 to 5.75 | 108 | 70.0 to 130 | 0.504 | 20.0 |
| BC14540 | Chloride | mg/L | -0.00232 | 1.00 | 10.0 | 15.7 | 15.8 | 10.1 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.635 | 20.0 |
| BC14539 | Chromium, Dissolved | mg/L | -0.0000342 | 0.000440 | 0.100 | 0.104 | 0.104 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Chromium, Total | mg/L | 0.0000960 | 0.000440 | 0.100 | 0.101 | 0.104 | 0.105 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC14539 | Cobalt, Dissolved | mg/L | -0.0000660 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.106 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Cobalt, Total | mg/L | -0.0000679 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC14540 | Fluoride | mg/L | -0.0396 | 0.125 | 2.50 | 2.98 | 3.01 | 2.75 | 2.25 to 2.75 | 110 | 80.0 to 120 | 1.00 | 20.0 |
| BC14539 | Iron, Dissolved | mg/L | 0.000125 | 0.0176 | 0.2 | 0.350 | 0.350 | 0.199 | 0.170 to 0.230 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Iron, Total | mg/L | 0.00200 | 0.0176 | 0.2 | 0.417 | 0.415 | 0.207 | 0.170 to 0.230 | 106 | 70.0 to 130 | 0.481 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 12:03

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: BC14539

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14539 | Lead, Dissolved | mg/L | 0.0000102 | 0.000147 | 0.100 | 0.104 | 0.105 | 0.102 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Lead, Total | mg/L | 0.0000125 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC14539 | Lithium, Dissolved | mg/L | 0.000299 | 0.0154 | 0.200 | 0.263 | 0.265 | 0.204 | 0.170 to 0.230 | 98.5 | 70.0 to 130 | 0.758 | 20.0 |
| BC14539 | Lithium, Total | mg/L | 8.520E-05 | 0.0154 | 0.200 | 0.315 | 0.312 | 0.202 | 0.170 to 0.230 | 117 | 70.0 to 130 | 0.957 | 20.0 |
| BC14539 | Magnesium, Dissolved | mg/L | 0.00044 | 0.0462 | 5.00 | 9.35 | 9.53 | 5.15 | 4.25 to 5.75 | 95.4 | 70.0 to 130 | 1.91 | 20.0 |
| BC14539 | Magnesium, Total | mg/L | 0.00217 | 0.0462 | 5.00 | 10.7 | 10.5 | 5.21 | 4.25 to 5.75 | 112 | 70.0 to 130 | 1.89 | 20.0 |
| BC14539 | Manganese, Dissolved | mg/L | 0.0000050 | 0.00033 | 0.100 | 0.113 | 0.112 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.889 | 20.0 |
| BC14539 | Manganese, Total | mg/L | 0.0000172 | 0.00033 | 0.100 | 0.112 | 0.114 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.77 | 20.0 |
| BC14539 | Mercury, Total by CVAA | mg/L | 3.000E-05 | 0.000500 | 0.004 | 0.00402 | 0.00407 | 0.00408 | 0.00340 to 0.00460 | 100 | 70.0 to 130 | 1.24 | 20.0 |
| BC14539 | Molybdenum, Dissolved | mg/L | -0.0000001 | 0.0002 | 0.100 | 0.136 | 0.139 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 2.18 | 20.0 |
| BC14539 | Molybdenum, Total | mg/L | 0.0000092 | 0.0002 | 0.100 | 0.138 | 0.143 | 0.106 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 3.56 | 20.0 |
| BC14539 | Potassium, Dissolved | mg/L | 0.000523 | 0.367 | 10.0 | 11.3 | 11.5 | 9.98 | 8.50 to 11.5 | 99.6 | 70.0 to 130 | 1.75 | 20.0 |
| BC14539 | Potassium, Total | mg/L | -0.00978 | 0.367 | 10.0 | 11.5 | 11.8 | 10.3 | 8.50 to 11.5 | 100 | 70.0 to 130 | 2.58 | 20.0 |
| BC14539 | Selenium, Dissolved | mg/L | 0.000115 | 0.00100 | 0.100 | 0.112 | 0.109 | 0.102 | 0.0850 to 0.115 | 112 | 70.0 to 130 | 2.71 | 20.0 |
| BC14539 | Selenium, Total | mg/L | 0.0000514 | 0.00100 | 0.100 | 0.106 | 0.110 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 3.70 | 20.0 |
| BC14539 | Silicon, Dissolved | mg/L | -0.00017 | 0.0440 | 1.00 | 10.5 | 10.6 | 1.02 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Silicon, Total | mg/L | -0.000898 | 0.0440 | 1.00 | 11.0 | 10.9 | 1.03 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.913 | 20.0 |
| BC14539 | Sodium, Dissolved | mg/L | -0.000318 | 0.0660 | 5.00 | 178 | 155 | 5.10 | 4.25 to 5.75 | 380 | 70.0 to 130 | 13.8 | 20.0 |
| BC14539 | Sodium, Total | mg/L | -0.000568 | 0.0660 | 5.00 | 151 | 150 | 5.06 | 4.25 to 5.75 | 160 | 70.0 to 130 | 0.664 | 20.0 |
| BC14539 | Sulfate | mg/L | 0.349 | 2.0 | 20.0 | 46.0 | 46.1 | 19.8 | 18.0 to 22.0 | 88.5 | 80.0 to 120 | 0.217 | 20.0 |
| BC14539 | Thallium, Dissolved | mg/L | -0.0000680 | 0.000147 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC14539 | Thallium, Total | mg/L | -0.0000688 | 0.000147 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14539 | Total Organic Carbon | mg/L | 0.191 | 1.00 | 10.0 | 11.1 | 11.0 | 24.8 | | 99.2 | 80.0 to 120 | 0.905 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 12:03

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-29H

Laboratory ID Number: BC14539

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|-------|-------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14539 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.02 | 0.007 | 2.18 | 1.80 to 2.20 | 101 | 90.0 to 110 | 0.00 | 15.0 |
| BC14539 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 375 | 45.0 | 40.0 to 60.0 | | | 0.535 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19

Location Code: WMWGORAP
Collected: 8/3/22 13:50
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14540

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|--------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/9/22 06:35 | 8/9/22 13:46 | | 1.015 | 0.0329 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 8/9/22 06:37 | 8/11/22 11:51 | | 10.15 | 56.4 | mg/L | 0.70035 | 4.06 | | |
| * Iron, Total | 8/9/22 06:35 | 8/9/22 13:46 | | 1.015 | 0.423 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 8/9/22 06:35 | 8/9/22 13:46 | | 1.015 | 0.0416 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/9/22 06:35 | 8/10/22 15:26 | | 1.015 | 16.3 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/9/22 06:35 | 8/9/22 13:46 | | 1 | 21.2 | mg/L | | | | |
| Silicon, Total | 8/9/22 06:35 | 8/9/22 13:46 | | 1.015 | 9.89 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/9/22 06:37 | 8/12/22 11:39 | | 10.15 | 56.7 | mg/L | 0.3045 | 4.06 | RA | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/8/22 15:03 | 8/16/22 10:05 | | 1.015 | 0.0306 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 8/8/22 15:03 | 8/16/22 10:27 | | 10.15 | 70.2 | mg/L | 0.70035 | 4.06 | RA | |
| * Iron, Dissolved | 8/8/22 15:03 | 8/16/22 10:59 | | 1.015 | 0.397 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 8/8/22 15:03 | 8/16/22 10:05 | | 1.015 | 0.0334 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/8/22 15:03 | 8/16/22 10:05 | | 1.015 | 15.6 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/8/22 15:03 | 8/16/22 10:05 | | 1 | 20.5 | mg/L | | | | |
| Silicon, Dissolved | 8/8/22 15:03 | 8/16/22 10:05 | | 1.015 | 9.60 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/8/22 15:03 | 8/16/22 10:27 | | 10.15 | 68.4 | mg/L | 0.3045 | 4.06 | RA | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | 0.00940 | mg/L | 0.006090 | 0.01015 | J | |
| * Arsenic, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | 0.00223 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | 0.348 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | 0.000412 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | 0.0252 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | 0.00355 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | 2.26 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19

Location Code: WMWGORAP
Collected: 8/3/22 13:50
Customer ID:
Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14540

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/9/22 06:37 | 8/9/22 16:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | 0.00182 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | 0.337 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | 0.000212 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | 0.0248 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | 0.00303 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | 2.15 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/8/22 15:03 | 8/9/22 12:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 21:54 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/10/22 14:21 | 8/10/22 14:21 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 272 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/8/22 11:40 | 8/10/22 12:30 | | 1 | 327 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 269 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/16/22 13:06 | 8/16/22 15:45 | | 1 | 3.18 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/10/22 04:55 | 8/10/22 04:55 | | 1 | 1.04 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-19

Location Code: WMWGORAP

Collected: 8/3/22 13:50

Customer ID:

Submittal Date: 8/4/22 08:44

Laboratory ID Number: BC14540

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|--------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:35 | 8/8/22 11:35 | | 1 | 5.35 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 15:00 | 8/8/22 15:00 | | 1 | 0.231 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/5/22 09:40 | 8/5/22 09:40 | | 1 | 17.1 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/3/22 13:48 | 8/3/22 13:48 | | | 543.91 | uS/cm | | | FA |
| pH | 8/3/22 13:48 | 8/3/22 13:48 | | | 7.87 | SU | | | FA |
| Temperature | 8/3/22 13:48 | 8/3/22 13:48 | | | 19.30 | C | | | FA |
| Turbidity | 8/3/22 13:48 | 8/3/22 13:48 | | | 0.65 | NTU | | | FA |
| Sulfide | 8/3/22 13:48 | 8/3/22 13:48 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 13:50

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: BC14540

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|-------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14540 | Aluminum, Dissolved | mg/L | 0.000686 | 0.010 | 0.100 | 0.109 | 0.109 | 0.106 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.00 | 20.0 |
| BC14540 | Aluminum, Total | mg/L | 0.00122 | 0.010 | 0.100 | 0.120 | 0.117 | 0.109 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 2.53 | 20.0 |
| BC14540 | Antimony, Dissolved | mg/L | 0.000234 | 0.00100 | 0.100 | 0.0961 | 0.0970 | 0.0941 | 0.0850 to 0.115 | 96.1 | 70.0 to 130 | 0.932 | 20.0 |
| BC14540 | Antimony, Total | mg/L | 0.000188 | 0.00100 | 0.100 | 0.108 | 0.106 | 0.105 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 1.87 | 20.0 |
| BC14540 | Arsenic, Dissolved | mg/L | 0.0000014 | 0.000176 | 0.100 | 0.107 | 0.107 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14540 | Arsenic, Total | mg/L | 0.0000178 | 0.000176 | 0.100 | 0.106 | 0.106 | 0.101 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14540 | Barium, Dissolved | mg/L | 0.0000379 | 0.00100 | 0.100 | 0.437 | 0.437 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14540 | Barium, Total | mg/L | 0.0000147 | 0.00100 | 0.100 | 0.448 | 0.444 | 0.104 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.897 | 20.0 |
| BC14540 | Beryllium, Dissolved | mg/L | 0.0000210 | 0.000880 | 0.100 | 0.111 | 0.108 | 0.104 | 0.0850 to 0.115 | 111 | 70.0 to 130 | 2.74 | 20.0 |
| BC14540 | Beryllium, Total | mg/L | 0.0000100 | 0.000880 | 0.100 | 0.107 | 0.108 | 0.105 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.930 | 20.0 |
| BC14540 | Boron, Dissolved | mg/L | -0.00121 | 0.0650 | 1.00 | 1.06 | 1.06 | 0.995 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC14540 | Boron, Total | mg/L | 0.000464 | 0.0650 | 1.00 | 1.03 | 1.04 | 1.00 | 0.850 to 1.15 | 99.7 | 70.0 to 130 | 0.966 | 20.0 |
| BC14540 | Cadmium, Dissolved | mg/L | 0.0000088 | 0.000147 | 0.100 | 0.103 | 0.101 | 0.100 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.96 | 20.0 |
| BC14540 | Cadmium, Total | mg/L | 0.0000084 | 0.000147 | 0.100 | 0.104 | 0.102 | 0.103 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC14540 | Calcium, Dissolved | mg/L | -0.0127 | 0.152 | 5.00 | 66.7 | 64.3 | 5.04 | 4.25 to 5.75 | -70.0 | 70.0 to 130 | 3.66 | 20.0 |
| BC14540 | Calcium, Total | mg/L | -0.00413 | 0.152 | 5.00 | 61.6 | 61.4 | 5.44 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.325 | 20.0 |
| BC14540 | Chloride | mg/L | -0.00232 | 1.00 | 10.0 | 15.7 | 15.8 | 10.1 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.635 | 20.0 |
| BC14540 | Chromium, Dissolved | mg/L | -0.0000223 | 0.000440 | 0.100 | 0.105 | 0.105 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.00 | 20.0 |
| BC14540 | Chromium, Total | mg/L | 0.0000305 | 0.000440 | 0.100 | 0.106 | 0.103 | 0.103 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.87 | 20.0 |
| BC14540 | Cobalt, Dissolved | mg/L | -0.0000697 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.104 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14540 | Cobalt, Total | mg/L | -0.0000681 | 0.000147 | 0.100 | 0.107 | 0.104 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 2.84 | 20.0 |
| BC14540 | Fluoride | mg/L | -0.0396 | 0.125 | 2.50 | 2.98 | 3.01 | 2.75 | 2.25 to 2.75 | 110 | 80.0 to 120 | 1.00 | 20.0 |
| BC14540 | Iron, Dissolved | mg/L | -0.000155 | 0.0176 | 0.2 | 0.592 | 0.594 | 0.195 | 0.170 to 0.230 | 97.5 | 70.0 to 130 | 0.337 | 20.0 |
| BC14540 | Iron, Total | mg/L | 0.00136 | 0.0176 | 0.2 | 0.631 | 0.636 | 0.213 | 0.170 to 0.230 | 104 | 70.0 to 130 | 0.789 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 13:50

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: BC14540

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14540 | Lead, Dissolved | mg/L | 0.0000300 | 0.000147 | 0.100 | 0.108 | 0.107 | 0.103 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC14540 | Lead, Total | mg/L | 0.0000090 | 0.000147 | 0.100 | 0.110 | 0.108 | 0.109 | 0.0850 to 0.115 | 110 | 70.0 to 130 | 1.83 | 20.0 |
| BC14540 | Lithium, Dissolved | mg/L | -0.000055 | 0.0154 | 0.200 | 0.235 | 0.239 | 0.195 | 0.170 to 0.230 | 101 | 70.0 to 130 | 1.69 | 20.0 |
| BC14540 | Lithium, Total | mg/L | 0.000246 | 0.0154 | 0.200 | 0.267 | 0.268 | 0.221 | 0.170 to 0.230 | 113 | 70.0 to 130 | 0.374 | 20.0 |
| BC14540 | Magnesium, Dissolved | mg/L | -0.00344 | 0.0462 | 5.00 | 20.5 | 20.6 | 5.04 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.487 | 20.0 |
| BC14540 | Magnesium, Total | mg/L | 0.0115 | 0.0462 | 5.00 | 21.5 | 21.3 | 5.43 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.935 | 20.0 |
| BC14540 | Manganese, Dissolved | mg/L | 0.0000792 | 0.00033 | 0.100 | 0.129 | 0.129 | 0.104 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 0.00 | 20.0 |
| BC14540 | Manganese, Total | mg/L | 0.0000061 | 0.00033 | 0.100 | 0.130 | 0.128 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.55 | 20.0 |
| BC14947 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.004 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC14540 | Molybdenum, Dissolved | mg/L | 0.0000233 | 0.0002 | 0.100 | 0.109 | 0.106 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 2.79 | 20.0 |
| BC14540 | Molybdenum, Total | mg/L | 0.0000043 | 0.0002 | 0.100 | 0.110 | 0.109 | 0.103 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.913 | 20.0 |
| BC14540 | Potassium, Dissolved | mg/L | -0.00142 | 0.367 | 10.0 | 12.5 | 12.6 | 10.4 | 8.50 to 11.5 | 104 | 70.0 to 130 | 0.797 | 20.0 |
| BC14540 | Potassium, Total | mg/L | -0.0161 | 0.367 | 10.0 | 12.9 | 12.5 | 10.6 | 8.50 to 11.5 | 106 | 70.0 to 130 | 3.15 | 20.0 |
| BC14540 | Selenium, Dissolved | mg/L | 0.0000931 | 0.00100 | 0.100 | 0.109 | 0.108 | 0.103 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.922 | 20.0 |
| BC14540 | Selenium, Total | mg/L | 0.0000223 | 0.00100 | 0.100 | 0.109 | 0.106 | 0.105 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 2.79 | 20.0 |
| BC14540 | Silicon, Dissolved | mg/L | -0.000628 | 0.0440 | 1.00 | 10.6 | 10.6 | 1.01 | 0.850 to 1.15 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC14540 | Silicon, Total | mg/L | -7.190E-05 | 0.0440 | 1.00 | 10.8 | 10.9 | 1.05 | 0.850 to 1.15 | 91.0 | 70.0 to 130 | 0.922 | 20.0 |
| BC14540 | Sodium, Dissolved | mg/L | 0.00140 | 0.0660 | 5.00 | 63.1 | 60.8 | 4.91 | 4.25 to 5.75 | -106 | 70.0 to 130 | 3.71 | 20.0 |
| BC14540 | Sodium, Total | mg/L | -0.00113 | 0.0660 | 5.00 | 63.2 | 64.5 | 5.24 | 4.25 to 5.75 | 130 | 70.0 to 130 | 2.04 | 20.0 |
| BC14540 | Sulfate | mg/L | 0.441 | 2.0 | 20.0 | 36.6 | 36.5 | 20.0 | 18.0 to 22.0 | 97.5 | 80.0 to 120 | 0.274 | 20.0 |
| BC14540 | Thallium, Dissolved | mg/L | -0.0000727 | 0.000147 | 0.100 | 0.106 | 0.104 | 0.0996 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC14540 | Thallium, Total | mg/L | -0.0000723 | 0.000147 | 0.100 | 0.109 | 0.107 | 0.108 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 1.85 | 20.0 |
| BC14540 | Total Organic Carbon | mg/L | 0.152 | 1.00 | 10.0 | 10.8 | 11.0 | 25.3 | | 97.6 | 80.0 to 120 | 1.83 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/3/22 13:50

Customer ID:

Delivery Date: 8/4/22 08:44

Description: Gorgas Ash Pond - MW-19

Laboratory ID Number: BC14540

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|-------|---------------|
| BC14540 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 276 | 50.5 | 45.0 to 55.0 | | | 1.46 | 10.0 |
| BC14540 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.07 | 0.016 | 2.14 | 1.80 to 2.20 | 104 | 90.0 to 110 | 0.00 | 15.0 |
| BC14526 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 315 | 51.0 | 40.0 to 60.0 | | | 0.637 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17

Location Code: WMWGORAP
Collected: 8/8/22 14:40
Customer ID:
Submittal Date: 8/11/22 08:36

Laboratory ID Number: BC14939

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 11:51 | | 1.015 | 0.0717 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 11:51 | | 1.015 | 2.44 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 11:51 | | 1.015 | 0.0873 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 11:51 | | 1.015 | 0.0646 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 11:51 | | 1.015 | 0.681 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 11:51 | | 1 | 17.4 | mg/L | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 11:51 | | 1.015 | 8.11 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 13:07 | | 10.15 | 209 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/12/22 09:50 | 8/16/22 13:12 | | 1.015 | 0.0700 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/12/22 09:50 | 8/16/22 13:12 | | 1.015 | 2.08 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/12/22 09:50 | 8/16/22 13:12 | | 1.015 | 0.0531 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/12/22 09:50 | 8/16/22 13:12 | | 1.015 | 0.0592 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/12/22 09:50 | 8/16/22 13:12 | | 1.015 | 0.629 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/12/22 09:50 | 8/16/22 13:12 | | 1 | 16.1 | mg/L | | | |
| Silicon, Dissolved | 8/12/22 09:50 | 8/16/22 13:12 | | 1.015 | 7.54 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/12/22 09:50 | 8/16/22 13:57 | | 10.15 | 224 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | 0.0252 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | 0.000878 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | 0.0875 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | 0.000334 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | 0.00523 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | 0.00154 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | 0.918 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17

Location Code: WMWGORAP
Collected: 8/8/22 14:40
Customer ID:
Submittal Date: 8/11/22 08:36

Laboratory ID Number: BC14939

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 14:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | 0.00901 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | 0.000694 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | 0.0837 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | 0.000309 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | 0.00499 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | 0.00132 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | 0.902 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/12/22 09:50 | 8/12/22 11:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 21:57 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:04 | 8/23/22 11:04 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: JS | | | | | | | |
| Alkalinity to pH 4.5 | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 410 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | 446 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: JS | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 394 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 15.8 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 18:06 | 8/16/22 18:06 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17

Location Code: WMWGORAP

Collected: 8/8/22 14:40

Customer ID:

Submittal Date: 8/11/22 08:36

Laboratory ID Number: BC14939

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:17 | 8/12/22 13:17 | | 1 | 6.21 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:33 | 8/12/22 14:33 | | 1 | 0.257 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 14:48 | 8/18/22 14:48 | | 1 | 8.35 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/8/22 14:37 | 8/8/22 14:37 | | | 750.33 | uS/cm | | | FA |
| pH | 8/8/22 14:37 | 8/8/22 14:37 | | | 8.38 | SU | | | FA |
| Temperature | 8/8/22 14:37 | 8/8/22 14:37 | | | 18.83 | C | | | FA |
| Turbidity | 8/8/22 14:37 | 8/8/22 14:37 | | | 1.51 | NTU | | | FA |
| Sulfide | 8/8/22 14:37 | 8/8/22 14:37 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/8/22 14:40

Customer ID:

Delivery Date: 8/11/22 08:36

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: BC14939

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC14949 | Aluminum, Dissolved | mg/L | 0.000274 | 0.010 | 0.100 | 0.105 | 0.107 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.113 | 0.113 | 0.107 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Antimony, Dissolved | mg/L | 0.000348 | 0.00100 | 0.100 | 0.0941 | 0.0943 | 0.0922 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 0.212 | 20.0 |
| BC14948 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0962 | 0.0975 | 0.0932 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 1.34 | 20.0 |
| BC14949 | Arsenic, Dissolved | mg/L | 0.0000204 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.0986 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14948 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.108 | 0.107 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.930 | 20.0 |
| BC14949 | Barium, Dissolved | mg/L | 0.0000403 | 0.00100 | 0.100 | 0.841 | 0.834 | 0.0972 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.836 | 20.0 |
| BC14948 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.209 | 0.207 | 0.0983 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.962 | 20.0 |
| BC14949 | Beryllium, Dissolved | mg/L | 0.0000394 | 0.000880 | 0.100 | 0.0947 | 0.0980 | 0.0969 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 3.43 | 20.0 |
| BC14948 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0939 | 0.0939 | 0.103 | 0.0850 to 0.115 | 93.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Boron, Dissolved | mg/L | -0.00159 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.993 | 0.850 to 1.15 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.985 | 0.850 to 1.15 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0972 | 0.0991 | 0.0970 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.94 | 20.0 |
| BC14948 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC14949 | Calcium, Dissolved | mg/L | -0.00736 | 0.152 | 5.00 | 30.8 | 30.2 | 4.77 | 4.25 to 5.75 | 100 | 70.0 to 130 | 1.97 | 20.0 |
| BC14948 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 16.6 | 16.7 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.601 | 20.0 |
| BC14948 | Chloride | mg/L | 0.00769 | 1.00 | 10.0 | 12.6 | 12.5 | 9.81 | 9.00 to 11.0 | 103 | 80.0 to 120 | 0.797 | 20.0 |
| BC14949 | Chromium, Dissolved | mg/L | 0.0000269 | 0.000440 | 0.100 | 0.0998 | 0.102 | 0.100 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC14948 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14949 | Cobalt, Dissolved | mg/L | -0.0000073 | 0.000147 | 0.100 | 0.0990 | 0.102 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 2.99 | 20.0 |
| BC14948 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Fluoride | mg/L | -0.0503 | 0.125 | 2.50 | 3.08 | 3.05 | 2.70 | 2.25 to 2.75 | 110 | 80.0 to 120 | 0.979 | 20.0 |
| BC14949 | Iron, Dissolved | mg/L | -0.000111 | 0.0176 | 0.2 | 1.06 | 1.07 | 0.196 | 0.170 to 0.230 | 95.5 | 70.0 to 130 | 0.939 | 20.0 |
| BC14948 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 1.17 | 1.16 | 0.203 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/8/22 14:40

Customer ID:

Delivery Date: 8/11/22 08:36

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: BC14939

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14949 | Lead, Dissolved | mg/L | 0.0000056 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.108 | 0.105 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Lithium, Dissolved | mg/L | -0.00019 | 0.0154 | 0.200 | 0.284 | 0.287 | 0.202 | 0.170 to 0.230 | 99.9 | 70.0 to 130 | 1.05 | 20.0 |
| BC14948 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.287 | 0.288 | 0.204 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.348 | 20.0 |
| BC14949 | Magnesium, Dissolved | mg/L | -0.00230 | 0.0462 | 5.00 | 16.4 | 16.4 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 12.1 | 12.0 | 5.15 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.830 | 20.0 |
| BC14949 | Manganese, Dissolved | mg/L | 0.0000089 | 0.00033 | 0.100 | 0.117 | 0.120 | 0.102 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.53 | 20.0 |
| BC14948 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.144 | 0.143 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.697 | 20.0 |
| BC14947 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.004 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC14949 | Molybdenum, Dissolved | mg/L | 0.0000003 | 0.0002 | 0.100 | 0.100 | 0.101 | 0.0975 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.995 | 20.0 |
| BC14948 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.108 | 0.105 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Potassium, Dissolved | mg/L | 0.00115 | 0.367 | 10.0 | 11.9 | 12.4 | 9.93 | 8.50 to 11.5 | 93.8 | 70.0 to 130 | 4.12 | 20.0 |
| BC14948 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 13.1 | 13.1 | 10.0 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Selenium, Dissolved | mg/L | 0.0000613 | 0.00100 | 0.100 | 0.105 | 0.107 | 0.0995 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Silicon, Dissolved | mg/L | -0.00112 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 7.21 | 7.23 | 1.03 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.277 | 20.0 |
| BC14949 | Sodium, Dissolved | mg/L | -0.00096 | 0.0660 | 5.00 | 88.4 | 76.0 | 5.05 | 4.25 to 5.75 | 182 | 70.0 to 130 | 15.1 | 20.0 |
| BC14948 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 152 | 156 | 4.98 | 4.25 to 5.75 | 140 | 70.0 to 130 | 2.60 | 20.0 |
| BC14947 | Sulfate | mg/L | 0.265 | 2.0 | 20.0 | 25.0 | 25.1 | 20.3 | 18.0 to 22.0 | 97.3 | 80.0 to 120 | 0.399 | 20.0 |
| BC14949 | Thallium, Dissolved | mg/L | -0.0000045 | 0.000147 | 0.100 | 0.105 | 0.108 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.2 | 11.1 | 24.2 | | 101 | 80.0 to 120 | 0.897 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/8/22 14:40

Customer ID:

Delivery Date: 8/11/22 08:36

Description: Gorgas Ash Pond - MW-17

Laboratory ID Number: BC14939

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC14948 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 268 | 50.8 | 45.0 to 55.0 | | | 5.09 | 10.0 |
| BC14948 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.11 | 0.001 | 1.90 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC14940 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 351 | 50.0 | 40.0 to 60.0 | | | 2.01 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17V

Location Code: WMWGORAP
Collected: 8/9/22 08:42
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14940

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 11:54 | | 1.015 | 0.0418 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 11:54 | | 1.015 | 31.4 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 11:54 | | 1.015 | 1.08 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 11:54 | | 1.015 | 0.0555 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 11:54 | | 1.015 | 12.5 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 11:54 | | 1 | 23.3 | mg/L | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 11:54 | | 1.015 | 10.9 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 13:10 | | 10.15 | 101 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/12/22 09:50 | 8/16/22 13:16 | | 1.015 | 0.0402 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/12/22 09:50 | 8/16/22 13:16 | | 1.015 | 29.2 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/12/22 09:50 | 8/16/22 13:16 | | 1.015 | 0.994 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/12/22 09:50 | 8/16/22 13:16 | | 1.015 | 0.0518 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/12/22 09:50 | 8/16/22 13:16 | | 1.015 | 12.3 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/12/22 09:50 | 8/16/22 13:16 | | 1 | 22.7 | mg/L | | | |
| Silicon, Dissolved | 8/12/22 09:50 | 8/16/22 13:16 | | 1.015 | 10.6 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/12/22 09:50 | 8/16/22 14:00 | | 10.15 | 136 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | 0.00763 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | 0.000807 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | 0.292 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | 0.000291 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | 0.0299 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | 0.00298 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | 2.21 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17V

Location Code: WMWGORAP
Collected: 8/9/22 08:42
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14940

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 14:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | 0.000797 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | 0.284 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | 0.000272 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | 0.0289 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | 0.00301 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | 2.10 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/12/22 09:50 | 8/12/22 11:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:01 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:05 | 8/23/22 11:05 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: JS | | | | | | | |
| Alkalinity to pH 4.5 | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 309 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | 344 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: JS | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 306 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 3.15 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 18:30 | 8/16/22 18:30 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-17V

Location Code: WMWGORAP

Collected: 8/9/22 08:42

Customer ID:

Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14940

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:18 | 8/12/22 13:18 | | 1 | 3.09 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:35 | 8/12/22 14:35 | | 1 | 0.245 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 14:49 | 8/18/22 14:49 | | 1 | 8.13 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/9/22 08:39 | 8/9/22 08:39 | | | 607.23 | uS/cm | | | FA |
| pH | 8/9/22 08:39 | 8/9/22 08:39 | | | 7.55 | SU | | | FA |
| Temperature | 8/9/22 08:39 | 8/9/22 08:39 | | | 19.17 | C | | | FA |
| Turbidity | 8/9/22 08:39 | 8/9/22 08:39 | | | 1.9 | NTU | | | FA |
| Sulfide | 8/9/22 08:39 | 8/9/22 08:39 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 08:42

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: BC14940

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14949 | Aluminum, Dissolved | mg/L | 0.000274 | 0.010 | 0.100 | 0.105 | 0.107 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.113 | 0.113 | 0.107 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Antimony, Dissolved | mg/L | 0.000348 | 0.00100 | 0.100 | 0.0941 | 0.0943 | 0.0922 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 0.212 | 20.0 |
| BC14948 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0962 | 0.0975 | 0.0932 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 1.34 | 20.0 |
| BC14949 | Arsenic, Dissolved | mg/L | 0.0000204 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.0986 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14948 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.108 | 0.107 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.930 | 20.0 |
| BC14949 | Barium, Dissolved | mg/L | 0.0000403 | 0.00100 | 0.100 | 0.841 | 0.834 | 0.0972 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.836 | 20.0 |
| BC14948 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.209 | 0.207 | 0.0983 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.962 | 20.0 |
| BC14949 | Beryllium, Dissolved | mg/L | 0.0000394 | 0.000880 | 0.100 | 0.0947 | 0.0980 | 0.0969 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 3.43 | 20.0 |
| BC14948 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0939 | 0.0939 | 0.103 | 0.0850 to 0.115 | 93.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Boron, Dissolved | mg/L | -0.00159 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.993 | 0.850 to 1.15 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.985 | 0.850 to 1.15 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0972 | 0.0991 | 0.0970 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.94 | 20.0 |
| BC14948 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC14949 | Calcium, Dissolved | mg/L | -0.00736 | 0.152 | 5.00 | 30.8 | 30.2 | 4.77 | 4.25 to 5.75 | 100 | 70.0 to 130 | 1.97 | 20.0 |
| BC14948 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 16.6 | 16.7 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.601 | 20.0 |
| BC14948 | Chloride | mg/L | 0.00769 | 1.00 | 10.0 | 12.6 | 12.5 | 9.81 | 9.00 to 11.0 | 103 | 80.0 to 120 | 0.797 | 20.0 |
| BC14949 | Chromium, Dissolved | mg/L | 0.0000269 | 0.000440 | 0.100 | 0.0998 | 0.102 | 0.100 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC14948 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14949 | Cobalt, Dissolved | mg/L | -0.0000073 | 0.000147 | 0.100 | 0.0990 | 0.102 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 2.99 | 20.0 |
| BC14948 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Fluoride | mg/L | -0.0503 | 0.125 | 2.50 | 3.08 | 3.05 | 2.70 | 2.25 to 2.75 | 110 | 80.0 to 120 | 0.979 | 20.0 |
| BC14949 | Iron, Dissolved | mg/L | -0.000111 | 0.0176 | 0.2 | 1.06 | 1.07 | 0.196 | 0.170 to 0.230 | 95.5 | 70.0 to 130 | 0.939 | 20.0 |
| BC14948 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 1.17 | 1.16 | 0.203 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 08:42

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: BC14940

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14949 | Lead, Dissolved | mg/L | 0.0000056 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.108 | 0.105 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Lithium, Dissolved | mg/L | -0.00019 | 0.0154 | 0.200 | 0.284 | 0.287 | 0.202 | 0.170 to 0.230 | 99.9 | 70.0 to 130 | 1.05 | 20.0 |
| BC14948 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.287 | 0.288 | 0.204 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.348 | 20.0 |
| BC14949 | Magnesium, Dissolved | mg/L | -0.00230 | 0.0462 | 5.00 | 16.4 | 16.4 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 12.1 | 12.0 | 5.15 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.830 | 20.0 |
| BC14949 | Manganese, Dissolved | mg/L | 0.0000089 | 0.00033 | 0.100 | 0.117 | 0.120 | 0.102 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.53 | 20.0 |
| BC14948 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.144 | 0.143 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.697 | 20.0 |
| BC14947 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.004 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC14949 | Molybdenum, Dissolved | mg/L | 0.0000003 | 0.0002 | 0.100 | 0.100 | 0.101 | 0.0975 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.995 | 20.0 |
| BC14948 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.108 | 0.105 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Potassium, Dissolved | mg/L | 0.00115 | 0.367 | 10.0 | 11.9 | 12.4 | 9.93 | 8.50 to 11.5 | 93.8 | 70.0 to 130 | 4.12 | 20.0 |
| BC14948 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 13.1 | 13.1 | 10.0 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Selenium, Dissolved | mg/L | 0.0000613 | 0.00100 | 0.100 | 0.105 | 0.107 | 0.0995 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Silicon, Dissolved | mg/L | -0.00112 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 7.21 | 7.23 | 1.03 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.277 | 20.0 |
| BC14949 | Sodium, Dissolved | mg/L | -0.00096 | 0.0660 | 5.00 | 88.4 | 76.0 | 5.05 | 4.25 to 5.75 | 182 | 70.0 to 130 | 15.1 | 20.0 |
| BC14948 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 152 | 156 | 4.98 | 4.25 to 5.75 | 140 | 70.0 to 130 | 2.60 | 20.0 |
| BC14947 | Sulfate | mg/L | 0.265 | 2.0 | 20.0 | 25.0 | 25.1 | 20.3 | 18.0 to 22.0 | 97.3 | 80.0 to 120 | 0.399 | 20.0 |
| BC14949 | Thallium, Dissolved | mg/L | -0.0000045 | 0.000147 | 0.100 | 0.105 | 0.108 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.2 | 11.1 | 24.2 | | 101 | 80.0 to 120 | 0.897 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 08:42

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-17V

Laboratory ID Number: BC14940

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14948 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 268 | 50.8 | 45.0 to 55.0 | | | 5.09 | 10.0 |
| BC14948 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.11 | 0.001 | 1.90 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC14940 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 351 | 50.0 | 40.0 to 60.0 | | | 2.01 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21V

Location Code: WMWGORAP
Collected: 8/9/22 12:55
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14941

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 11:58 | | 1.015 | 0.0869 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 11:58 | | 1.015 | 33.0 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 11:58 | | 1.015 | 0.0764 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 11:58 | | 1.015 | 0.0789 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 11:58 | | 1.015 | 8.31 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 11:58 | | 1 | 11.6 | mg/L | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 11:58 | | 1.015 | 5.43 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 13:13 | | 10.15 | 394 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/12/22 09:50 | 8/16/22 13:19 | | 1.015 | 0.0869 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 8/12/22 09:50 | 8/16/22 13:19 | | 1.015 | 29.6 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/12/22 09:50 | 8/16/22 13:19 | | 1.015 | 0.0600 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/12/22 09:50 | 8/16/22 13:19 | | 1.015 | 0.0725 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/12/22 09:50 | 8/16/22 13:19 | | 1.015 | 8.01 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/12/22 09:50 | 8/16/22 13:19 | | 1 | 11.0 | mg/L | | | |
| Silicon, Dissolved | 8/12/22 09:50 | 8/16/22 13:19 | | 1.015 | 5.13 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/12/22 09:50 | 8/16/22 14:31 | | 101.5 | 462 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | 0.0428 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | 0.00345 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | 0.0477 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | 0.000378 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | 0.0203 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | 0.0509 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | 52.2 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21V

Location Code: WMWGORAP
Collected: 8/9/22 12:55
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14941

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 14:27 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | 0.0111 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | 0.00331 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | 0.0465 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | 0.000301 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | 0.0206 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | 0.0510 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | 51.9 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/12/22 09:50 | 8/12/22 11:52 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:05 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:07 | 8/23/22 11:07 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: JS | | | | | | | |
| Alkalinity to pH 4.5 | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 208 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | 1240 | mg/L | | 100 | |
| Analytical Method: SM 4500CO2 D | | Analyst: JS | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 205 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 3.34 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 18:53 | 8/16/22 18:53 | | 1 | 4.37 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21V

Location Code: WMWGORAP

Collected: 8/9/22 12:55

Customer ID:

Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14941

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|-------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:32 | 8/12/22 13:32 | | 20 | 327 | mg/L | 10.00 | 20 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:36 | 8/12/22 14:36 | | 1 | 0.406 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 15:01 | 8/18/22 15:01 | | 20 | 360 | mg/L | 12.0 | 40 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/9/22 12:52 | 8/9/22 12:52 | | | 2352.57 | uS/cm | | | FA |
| pH | 8/9/22 12:52 | 8/9/22 12:52 | | | 7.90 | SU | | | FA |
| Temperature | 8/9/22 12:52 | 8/9/22 12:52 | | | 22.23 | C | | | FA |
| Turbidity | 8/9/22 12:52 | 8/9/22 12:52 | | | 2.74 | NTU | | | FA |
| Sulfide | 8/9/22 12:52 | 8/9/22 12:52 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 12:55

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-21V

Laboratory ID Number: BC14941

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC14949 | Aluminum, Dissolved | mg/L | 0.000274 | 0.010 | 0.100 | 0.105 | 0.107 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.113 | 0.113 | 0.107 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Antimony, Dissolved | mg/L | 0.000348 | 0.00100 | 0.100 | 0.0941 | 0.0943 | 0.0922 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 0.212 | 20.0 |
| BC14948 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0962 | 0.0975 | 0.0932 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 1.34 | 20.0 |
| BC14949 | Arsenic, Dissolved | mg/L | 0.0000204 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.0986 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14948 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.108 | 0.107 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.930 | 20.0 |
| BC14949 | Barium, Dissolved | mg/L | 0.0000403 | 0.00100 | 0.100 | 0.841 | 0.834 | 0.0972 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.836 | 20.0 |
| BC14948 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.209 | 0.207 | 0.0983 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.962 | 20.0 |
| BC14949 | Beryllium, Dissolved | mg/L | 0.0000394 | 0.000880 | 0.100 | 0.0947 | 0.0980 | 0.0969 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 3.43 | 20.0 |
| BC14948 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0939 | 0.0939 | 0.103 | 0.0850 to 0.115 | 93.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Boron, Dissolved | mg/L | -0.00159 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.993 | 0.850 to 1.15 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.985 | 0.850 to 1.15 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0972 | 0.0991 | 0.0970 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.94 | 20.0 |
| BC14948 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC14949 | Calcium, Dissolved | mg/L | -0.00736 | 0.152 | 5.00 | 30.8 | 30.2 | 4.77 | 4.25 to 5.75 | 100 | 70.0 to 130 | 1.97 | 20.0 |
| BC14948 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 16.6 | 16.7 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.601 | 20.0 |
| BC14948 | Chloride | mg/L | 0.00769 | 1.00 | 10.0 | 12.6 | 12.5 | 9.81 | 9.00 to 11.0 | 103 | 80.0 to 120 | 0.797 | 20.0 |
| BC14949 | Chromium, Dissolved | mg/L | 0.0000269 | 0.000440 | 0.100 | 0.0998 | 0.102 | 0.100 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC14948 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14949 | Cobalt, Dissolved | mg/L | -0.0000073 | 0.000147 | 0.100 | 0.0990 | 0.102 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 2.99 | 20.0 |
| BC14948 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Fluoride | mg/L | -0.0503 | 0.125 | 2.50 | 3.08 | 3.05 | 2.70 | 2.25 to 2.75 | 110 | 80.0 to 120 | 0.979 | 20.0 |
| BC14949 | Iron, Dissolved | mg/L | -0.000111 | 0.0176 | 0.2 | 1.06 | 1.07 | 0.196 | 0.170 to 0.230 | 95.5 | 70.0 to 130 | 0.939 | 20.0 |
| BC14948 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 1.17 | 1.16 | 0.203 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 12:55

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-21V

Laboratory ID Number: BC14941

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14949 | Lead, Dissolved | mg/L | 0.0000056 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.108 | 0.105 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Lithium, Dissolved | mg/L | -0.00019 | 0.0154 | 0.200 | 0.284 | 0.287 | 0.202 | 0.170 to 0.230 | 99.9 | 70.0 to 130 | 1.05 | 20.0 |
| BC14948 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.287 | 0.288 | 0.204 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.348 | 20.0 |
| BC14949 | Magnesium, Dissolved | mg/L | -0.00230 | 0.0462 | 5.00 | 16.4 | 16.4 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 12.1 | 12.0 | 5.15 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.830 | 20.0 |
| BC14949 | Manganese, Dissolved | mg/L | 0.0000089 | 0.00033 | 0.100 | 0.117 | 0.120 | 0.102 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.53 | 20.0 |
| BC14948 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.144 | 0.143 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.697 | 20.0 |
| BC14947 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.004 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC14949 | Molybdenum, Dissolved | mg/L | 0.0000003 | 0.0002 | 0.100 | 0.100 | 0.101 | 0.0975 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.995 | 20.0 |
| BC14948 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.108 | 0.105 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Potassium, Dissolved | mg/L | 0.00115 | 0.367 | 10.0 | 11.9 | 12.4 | 9.93 | 8.50 to 11.5 | 93.8 | 70.0 to 130 | 4.12 | 20.0 |
| BC14948 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 13.1 | 13.1 | 10.0 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Selenium, Dissolved | mg/L | 0.0000613 | 0.00100 | 0.100 | 0.105 | 0.107 | 0.0995 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Silicon, Dissolved | mg/L | -0.00112 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 7.21 | 7.23 | 1.03 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.277 | 20.0 |
| BC14949 | Sodium, Dissolved | mg/L | -0.00096 | 0.0660 | 5.00 | 88.4 | 76.0 | 5.05 | 4.25 to 5.75 | 182 | 70.0 to 130 | 15.1 | 20.0 |
| BC14948 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 152 | 156 | 4.98 | 4.25 to 5.75 | 140 | 70.0 to 130 | 2.60 | 20.0 |
| BC14947 | Sulfate | mg/L | 0.265 | 2.0 | 20.0 | 25.0 | 25.1 | 20.3 | 18.0 to 22.0 | 97.3 | 80.0 to 120 | 0.399 | 20.0 |
| BC14949 | Thallium, Dissolved | mg/L | -0.0000045 | 0.000147 | 0.100 | 0.105 | 0.108 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.2 | 11.1 | 24.2 | | 101 | 80.0 to 120 | 0.897 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 12:55

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-21V

Laboratory ID Number: BC14941

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14948 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 268 | 50.8 | 45.0 to 55.0 | | | 5.09 | 10.0 |
| BC14948 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.11 | 0.001 | 1.90 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC14940 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 351 | 50.0 | 40.0 to 60.0 | | | 2.01 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB
Collected: 8/9/22 13:50
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14942

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 12:01 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 12:01 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 12:01 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 12:01 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 12:01 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 12:01 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 12:01 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 12:01 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | 0.0125 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | 0.000318 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 14:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: CRB | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:09 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: CES | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:09 | 8/23/22 11:09 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB

Collected: 8/9/22 13:50

Customer ID:

Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14942

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 19:16 | 8/16/22 19:16 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:23 | 8/12/22 13:23 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:37 | 8/12/22 14:37 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 14:52 | 8/18/22 14:52 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 8/9/22 13:50

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC14942

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14948 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.113 | 0.113 | 0.107 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0962 | 0.0975 | 0.0932 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 1.34 | 20.0 |
| BC14948 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.108 | 0.107 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.930 | 20.0 |
| BC14948 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.209 | 0.207 | 0.0983 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.962 | 20.0 |
| BC14948 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0939 | 0.0939 | 0.103 | 0.0850 to 0.115 | 93.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.985 | 0.850 to 1.15 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC14948 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 16.6 | 16.7 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.601 | 20.0 |
| BC14948 | Chloride | mg/L | 0.00769 | 1.00 | 10.0 | 12.6 | 12.5 | 9.81 | 9.00 to 11.0 | 103 | 80.0 to 120 | 0.797 | 20.0 |
| BC14948 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Fluoride | mg/L | -0.0503 | 0.125 | 2.50 | 3.08 | 3.05 | 2.70 | 2.25 to 2.75 | 110 | 80.0 to 120 | 0.979 | 20.0 |
| BC14948 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 1.17 | 1.16 | 0.203 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 0.858 | 20.0 |
| BC14948 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.108 | 0.105 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.287 | 0.288 | 0.204 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.348 | 20.0 |
| BC14948 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 12.1 | 12.0 | 5.15 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.830 | 20.0 |
| BC14948 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.144 | 0.143 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.697 | 20.0 |
| BC14947 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.004 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC14948 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.108 | 0.105 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 13.1 | 13.1 | 10.0 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 7.21 | 7.23 | 1.03 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.277 | 20.0 |
| BC14948 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 152 | 156 | 4.98 | 4.25 to 5.75 | 140 | 70.0 to 130 | 2.60 | 20.0 |
| BC14947 | Sulfate | mg/L | 0.265 | 2.0 | 20.0 | 25.0 | 25.1 | 20.3 | 18.0 to 22.0 | 97.3 | 80.0 to 120 | 0.399 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 8/9/22 13:50

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC14942

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | |
|---------|----------------------|-------|-----------|----------|-------|-------|-------|----------|-----------------|-----|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | Limit |
| BC14948 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.2 | 11.1 | 24.2 | | 101 | 80.0 to 120 | 0.897 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 8/9/22 13:50

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC14942

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14948 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.11 | 0.001 | 1.90 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC14940 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 351 | 50.0 | 40.0 to 60.0 | | | 2.01 | 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21

Location Code: WMWGORAP
Collected: 8/10/22 08:54
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14943

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 12:04 | | 1.015 | 0.119 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 12:04 | | 1.015 | 3.49 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 12:04 | | 1.015 | 0.0156 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 12:04 | | 1.015 | 0.0868 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 12:04 | | 1.015 | 0.484 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 12:04 | | 1 | 9.63 | mg/L | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 12:04 | | 1.015 | 4.50 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 13:17 | | 10.15 | 221 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/12/22 09:50 | 8/16/22 13:22 | | 1.015 | 0.118 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/12/22 09:50 | 8/16/22 13:22 | | 1.015 | 1.66 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/12/22 09:50 | 8/16/22 13:22 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Dissolved | 8/12/22 09:50 | 8/16/22 13:22 | | 1.015 | 0.0805 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/12/22 09:50 | 8/16/22 13:22 | | 1.015 | 0.421 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/12/22 09:50 | 8/16/22 13:22 | | 1 | 8.92 | mg/L | | | |
| Silicon, Dissolved | 8/12/22 09:50 | 8/16/22 13:22 | | 1.015 | 4.17 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/12/22 09:50 | 8/16/22 14:06 | | 10.15 | 303 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | 0.0707 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | 0.000495 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | 0.135 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | 0.000827 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | 0.000819 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | 0.00802 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | 1.37 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21

Location Code: WMWGORAP
Collected: 8/10/22 08:54
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14943

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 14:42 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | 0.0190 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | 0.000534 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | 0.136 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | 0.000226 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | 0.000465 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | 0.00755 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | 1.35 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | 0.0154 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 8/12/22 09:50 | 8/12/22 12:00 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:13 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:11 | 8/23/22 11:11 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: JS | | | | | | | |
| Alkalinity to pH 4.5 | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 163 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | 592 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: JS | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 126 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 35.1 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 19:34 | 8/16/22 19:34 | | 1 | 1.44 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-21

Location Code: WMWGORAP

Collected: 8/10/22 08:54

Customer ID:

Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14943

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:33 | 8/12/22 13:33 | | 4 | 44.0 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:38 | 8/12/22 14:38 | | 1 | 0.186 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 15:02 | 8/18/22 15:02 | | 16 | 245 | mg/L | 9.6 | 32 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/10/22 08:51 | 8/10/22 08:51 | | | 879.93 | uS/cm | | | FA |
| pH | 8/10/22 08:51 | 8/10/22 08:51 | | | 9.26 | SU | | | FA |
| Temperature | 8/10/22 08:51 | 8/10/22 08:51 | | | 18.59 | C | | | FA |
| Turbidity | 8/10/22 08:51 | 8/10/22 08:51 | | | 2.16 | NTU | | | FA |
| Sulfide | 8/10/22 08:51 | 8/10/22 08:51 | | | 3.0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/10/22 08:54

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: BC14943

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14949 | Aluminum, Dissolved | mg/L | 0.000274 | 0.010 | 0.100 | 0.105 | 0.107 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.113 | 0.113 | 0.107 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Antimony, Dissolved | mg/L | 0.000348 | 0.00100 | 0.100 | 0.0941 | 0.0943 | 0.0922 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 0.212 | 20.0 |
| BC14948 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0962 | 0.0975 | 0.0932 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 1.34 | 20.0 |
| BC14949 | Arsenic, Dissolved | mg/L | 0.0000204 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.0986 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14948 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.108 | 0.107 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.930 | 20.0 |
| BC14949 | Barium, Dissolved | mg/L | 0.0000403 | 0.00100 | 0.100 | 0.841 | 0.834 | 0.0972 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.836 | 20.0 |
| BC14948 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.209 | 0.207 | 0.0983 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.962 | 20.0 |
| BC14949 | Beryllium, Dissolved | mg/L | 0.0000394 | 0.000880 | 0.100 | 0.0947 | 0.0980 | 0.0969 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 3.43 | 20.0 |
| BC14948 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0939 | 0.0939 | 0.103 | 0.0850 to 0.115 | 93.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Boron, Dissolved | mg/L | -0.00159 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.993 | 0.850 to 1.15 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.985 | 0.850 to 1.15 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0972 | 0.0991 | 0.0970 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.94 | 20.0 |
| BC14948 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC14949 | Calcium, Dissolved | mg/L | -0.00736 | 0.152 | 5.00 | 30.8 | 30.2 | 4.77 | 4.25 to 5.75 | 100 | 70.0 to 130 | 1.97 | 20.0 |
| BC14948 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 16.6 | 16.7 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.601 | 20.0 |
| BC14948 | Chloride | mg/L | 0.00769 | 1.00 | 10.0 | 12.6 | 12.5 | 9.81 | 9.00 to 11.0 | 103 | 80.0 to 120 | 0.797 | 20.0 |
| BC14949 | Chromium, Dissolved | mg/L | 0.0000269 | 0.000440 | 0.100 | 0.0998 | 0.102 | 0.100 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC14948 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14949 | Cobalt, Dissolved | mg/L | -0.0000073 | 0.000147 | 0.100 | 0.0990 | 0.102 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 2.99 | 20.0 |
| BC14948 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Fluoride | mg/L | -0.0503 | 0.125 | 2.50 | 3.08 | 3.05 | 2.70 | 2.25 to 2.75 | 110 | 80.0 to 120 | 0.979 | 20.0 |
| BC14949 | Iron, Dissolved | mg/L | -0.000111 | 0.0176 | 0.2 | 1.06 | 1.07 | 0.196 | 0.170 to 0.230 | 95.5 | 70.0 to 130 | 0.939 | 20.0 |
| BC14948 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 1.17 | 1.16 | 0.203 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 8/10/22 08:54
Customer ID:
Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: BC14943

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14949 | Lead, Dissolved | mg/L | 0.0000056 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.108 | 0.105 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Lithium, Dissolved | mg/L | -0.00019 | 0.0154 | 0.200 | 0.284 | 0.287 | 0.202 | 0.170 to 0.230 | 99.9 | 70.0 to 130 | 1.05 | 20.0 |
| BC14948 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.287 | 0.288 | 0.204 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.348 | 20.0 |
| BC14949 | Magnesium, Dissolved | mg/L | -0.00230 | 0.0462 | 5.00 | 16.4 | 16.4 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 12.1 | 12.0 | 5.15 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.830 | 20.0 |
| BC14949 | Manganese, Dissolved | mg/L | 0.0000089 | 0.00033 | 0.100 | 0.117 | 0.120 | 0.102 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.53 | 20.0 |
| BC14948 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.144 | 0.143 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.697 | 20.0 |
| BC14947 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.004 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC14949 | Molybdenum, Dissolved | mg/L | 0.0000003 | 0.0002 | 0.100 | 0.100 | 0.101 | 0.0975 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.995 | 20.0 |
| BC14948 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.108 | 0.105 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Potassium, Dissolved | mg/L | 0.00115 | 0.367 | 10.0 | 11.9 | 12.4 | 9.93 | 8.50 to 11.5 | 93.8 | 70.0 to 130 | 4.12 | 20.0 |
| BC14948 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 13.1 | 13.1 | 10.0 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Selenium, Dissolved | mg/L | 0.0000613 | 0.00100 | 0.100 | 0.105 | 0.107 | 0.0995 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Silicon, Dissolved | mg/L | -0.00112 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 7.21 | 7.23 | 1.03 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.277 | 20.0 |
| BC14949 | Sodium, Dissolved | mg/L | -0.00096 | 0.0660 | 5.00 | 88.4 | 76.0 | 5.05 | 4.25 to 5.75 | 182 | 70.0 to 130 | 15.1 | 20.0 |
| BC14948 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 152 | 156 | 4.98 | 4.25 to 5.75 | 140 | 70.0 to 130 | 2.60 | 20.0 |
| BC14947 | Sulfate | mg/L | 0.265 | 2.0 | 20.0 | 25.0 | 25.1 | 20.3 | 18.0 to 22.0 | 97.3 | 80.0 to 120 | 0.399 | 20.0 |
| BC14949 | Thallium, Dissolved | mg/L | -0.0000045 | 0.000147 | 0.100 | 0.105 | 0.108 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.2 | 11.1 | 24.2 | | 101 | 80.0 to 120 | 0.897 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/10/22 08:54

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-21

Laboratory ID Number: BC14943

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14948 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 268 | 50.8 | 45.0 to 55.0 | | | 5.09 | 10.0 |
| BC14948 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.11 | 0.001 | 1.90 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC14949 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 277 | 50.0 | 40.0 to 60.0 | | | 1.79 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-38H

Location Code: WMWGORAP
Collected: 8/10/22 12:48
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14944

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 12:08 | | 1.015 | 0.0498 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 12:08 | | 1.015 | 15.1 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 12:08 | | 1.015 | 0.109 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 12:08 | | 1.015 | 0.0705 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 12:08 | | 1.015 | 4.89 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 12:08 | | 1 | 17.0 | mg/L | | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 12:08 | | 1.015 | 7.96 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 13:20 | | 10.15 | 154 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/12/22 09:50 | 8/16/22 13:25 | | 1.015 | 0.0459 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 8/12/22 09:50 | 8/16/22 13:25 | | 1.015 | 12.6 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/12/22 09:50 | 8/16/22 13:25 | | 1.015 | 0.0805 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 8/12/22 09:50 | 8/16/22 13:25 | | 1.015 | 0.0625 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/12/22 09:50 | 8/16/22 13:25 | | 1.015 | 4.31 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/12/22 09:50 | 8/16/22 13:25 | | 1 | 15.6 | mg/L | | | | |
| Silicon, Dissolved | 8/12/22 09:50 | 8/16/22 13:25 | | 1.015 | 7.29 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/12/22 09:50 | 8/16/22 14:09 | | 10.15 | 186 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | 0.0454 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | 0.00294 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | 0.286 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | 0.000322 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | 0.0333 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | 0.00406 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | 6.77 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-38H

Location Code: WMWGORAP
Collected: 8/10/22 12:48
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14944

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | 0.00236 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | 0.273 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | 0.000262 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | 0.0292 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | 0.00292 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | 5.80 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | 0.00151 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 8/12/22 09:50 | 8/12/22 12:07 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:17 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:13 | 8/23/22 11:13 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/22/22 13:15 | 8/22/22 14:02 | | 1 | 254 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | 456 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/22/22 13:15 | 8/22/22 14:02 | | 1 | 249 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/22/22 13:15 | 8/22/22 14:02 | | 1 | 5.23 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 19:52 | 8/16/22 19:52 | | 1 | 5.07 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-38H

Location Code: WMWGORAP

Collected: 8/10/22 12:48

Customer ID:

Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14944

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:35 | 8/12/22 13:35 | | 4 | 59.3 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:39 | 8/12/22 14:39 | | 1 | 0.231 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 15:04 | 8/18/22 15:04 | | 3 | 58.6 | mg/L | 1.8 | 6 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 8/10/22 12:45 | 8/10/22 12:45 | | | 820.39 | uS/cm | | | FA |
| pH | 8/10/22 12:45 | 8/10/22 12:45 | | | 7.49 | SU | | | FA |
| Temperature | 8/10/22 12:45 | 8/10/22 12:45 | | | 21.20 | C | | | FA |
| Turbidity | 8/10/22 12:45 | 8/10/22 12:45 | | | 1.27 | NTU | | | FA |
| Sulfide | 8/10/22 12:45 | 8/10/22 12:45 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/10/22 12:48

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-38H

Laboratory ID Number: BC14944

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC14949 | Aluminum, Dissolved | mg/L | 0.000274 | 0.010 | 0.100 | 0.105 | 0.107 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.113 | 0.113 | 0.107 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Antimony, Dissolved | mg/L | 0.000348 | 0.00100 | 0.100 | 0.0941 | 0.0943 | 0.0922 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 0.212 | 20.0 |
| BC14948 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0962 | 0.0975 | 0.0932 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 1.34 | 20.0 |
| BC14949 | Arsenic, Dissolved | mg/L | 0.0000204 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.0986 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14948 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.108 | 0.107 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.930 | 20.0 |
| BC14949 | Barium, Dissolved | mg/L | 0.0000403 | 0.00100 | 0.100 | 0.841 | 0.834 | 0.0972 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.836 | 20.0 |
| BC14948 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.209 | 0.207 | 0.0983 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.962 | 20.0 |
| BC14949 | Beryllium, Dissolved | mg/L | 0.0000394 | 0.000880 | 0.100 | 0.0947 | 0.0980 | 0.0969 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 3.43 | 20.0 |
| BC14948 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0939 | 0.0939 | 0.103 | 0.0850 to 0.115 | 93.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Boron, Dissolved | mg/L | -0.00159 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.993 | 0.850 to 1.15 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.985 | 0.850 to 1.15 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0972 | 0.0991 | 0.0970 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.94 | 20.0 |
| BC14948 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC14949 | Calcium, Dissolved | mg/L | -0.00736 | 0.152 | 5.00 | 30.8 | 30.2 | 4.77 | 4.25 to 5.75 | 100 | 70.0 to 130 | 1.97 | 20.0 |
| BC14948 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 16.6 | 16.7 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.601 | 20.0 |
| BC14948 | Chloride | mg/L | 0.00769 | 1.00 | 10.0 | 12.6 | 12.5 | 9.81 | 9.00 to 11.0 | 103 | 80.0 to 120 | 0.797 | 20.0 |
| BC14949 | Chromium, Dissolved | mg/L | 0.0000269 | 0.000440 | 0.100 | 0.0998 | 0.102 | 0.100 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC14948 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14949 | Cobalt, Dissolved | mg/L | -0.0000073 | 0.000147 | 0.100 | 0.0990 | 0.102 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 2.99 | 20.0 |
| BC14948 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Fluoride | mg/L | -0.0503 | 0.125 | 2.50 | 3.08 | 3.05 | 2.70 | 2.25 to 2.75 | 110 | 80.0 to 120 | 0.979 | 20.0 |
| BC14949 | Iron, Dissolved | mg/L | -0.000111 | 0.0176 | 0.2 | 1.06 | 1.07 | 0.196 | 0.170 to 0.230 | 95.5 | 70.0 to 130 | 0.939 | 20.0 |
| BC14948 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 1.17 | 1.16 | 0.203 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 8/10/22 12:48
Customer ID:
Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-38H

Laboratory ID Number: BC14944

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14949 | Lead, Dissolved | mg/L | 0.0000056 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.108 | 0.105 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Lithium, Dissolved | mg/L | -0.00019 | 0.0154 | 0.200 | 0.284 | 0.287 | 0.202 | 0.170 to 0.230 | 99.9 | 70.0 to 130 | 1.05 | 20.0 |
| BC14948 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.287 | 0.288 | 0.204 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.348 | 20.0 |
| BC14949 | Magnesium, Dissolved | mg/L | -0.00230 | 0.0462 | 5.00 | 16.4 | 16.4 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 12.1 | 12.0 | 5.15 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.830 | 20.0 |
| BC14949 | Manganese, Dissolved | mg/L | 0.0000089 | 0.00033 | 0.100 | 0.117 | 0.120 | 0.102 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.53 | 20.0 |
| BC14948 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.144 | 0.143 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.697 | 20.0 |
| BC14947 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.004 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC14949 | Molybdenum, Dissolved | mg/L | 0.0000003 | 0.0002 | 0.100 | 0.100 | 0.101 | 0.0975 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.995 | 20.0 |
| BC14948 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.108 | 0.105 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Potassium, Dissolved | mg/L | 0.00115 | 0.367 | 10.0 | 11.9 | 12.4 | 9.93 | 8.50 to 11.5 | 93.8 | 70.0 to 130 | 4.12 | 20.0 |
| BC14948 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 13.1 | 13.1 | 10.0 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Selenium, Dissolved | mg/L | 0.0000613 | 0.00100 | 0.100 | 0.105 | 0.107 | 0.0995 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Silicon, Dissolved | mg/L | -0.00112 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 7.21 | 7.23 | 1.03 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.277 | 20.0 |
| BC14949 | Sodium, Dissolved | mg/L | -0.00096 | 0.0660 | 5.00 | 88.4 | 76.0 | 5.05 | 4.25 to 5.75 | 182 | 70.0 to 130 | 15.1 | 20.0 |
| BC14948 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 152 | 156 | 4.98 | 4.25 to 5.75 | 140 | 70.0 to 130 | 2.60 | 20.0 |
| BC14947 | Sulfate | mg/L | 0.265 | 2.0 | 20.0 | 25.0 | 25.1 | 20.3 | 18.0 to 22.0 | 97.3 | 80.0 to 120 | 0.399 | 20.0 |
| BC14949 | Thallium, Dissolved | mg/L | -0.0000045 | 0.000147 | 0.100 | 0.105 | 0.108 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.2 | 11.1 | 24.2 | | 101 | 80.0 to 120 | 0.897 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/10/22 12:48

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-38H

Laboratory ID Number: BC14944

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC14949 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 247 | 52.6 | 45.0 to 55.0 | | | 1.22 | 10.0 |
| BC14948 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.11 | 0.001 | 1.90 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC14949 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 277 | 50.0 | 40.0 to 60.0 | | | 1.79 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-45V

Location Code: WMWGORAP
Collected: 8/8/22 15:15
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14945

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 12:11 | | 1.015 | 0.0415 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 12:11 | | 1.015 | 6.30 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 12:11 | | 1.015 | 0.104 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 12:11 | | 1.015 | 0.0486 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 12:11 | | 1.015 | 2.12 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 12:11 | | 1 | 13.3 | mg/L | | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 12:11 | | 1.015 | 6.21 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 13:24 | | 10.15 | 254 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/12/22 09:50 | 8/16/22 13:28 | | 1.015 | 0.0385 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 8/12/22 09:50 | 8/16/22 13:28 | | 1.015 | 4.48 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/12/22 09:50 | 8/16/22 13:28 | | 1.015 | 0.0454 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 8/12/22 09:50 | 8/16/22 13:28 | | 1.015 | 0.0431 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/12/22 09:50 | 8/16/22 13:28 | | 1.015 | 1.66 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/12/22 09:50 | 8/16/22 13:28 | | 1 | 12.4 | mg/L | | | | |
| Silicon, Dissolved | 8/12/22 09:50 | 8/16/22 13:28 | | 1.015 | 5.80 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/12/22 09:50 | 8/16/22 14:12 | | 10.15 | 306 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | 0.0638 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | 0.000618 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | 0.0257 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | 0.000882 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | 0.0236 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | 0.00454 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | 9.90 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-45V

Location Code: WMWGORAP
Collected: 8/8/22 15:15
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14945

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 14:56 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | 0.0112 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | 0.000491 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | 0.0221 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | 0.000351 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | 0.0212 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | 0.00376 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | 8.87 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/12/22 09:50 | 8/12/22 12:14 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:21 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:15 | 8/23/22 11:15 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: JS | | | | | | | |
| Alkalinity to pH 4.5 | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 168 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | 696 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: JS | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 165 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 2.64 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 20:14 | 8/16/22 20:14 | | 1 | 1.32 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-45V

Location Code: WMWGORAP
Collected: 8/8/22 15:15
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14945

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:36 | 8/12/22 13:36 | | 4 | 58.8 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:41 | 8/12/22 14:41 | | 1 | 0.154 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 15:05 | 8/18/22 15:05 | | 16 | 273 | mg/L | 9.6 | 32 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/8/22 15:11 | 8/8/22 15:11 | | | 1202.45 | uS/cm | | | FA |
| pH | 8/8/22 15:11 | 8/8/22 15:11 | | | 7.74 | SU | | | FA |
| Temperature | 8/8/22 15:11 | 8/8/22 15:11 | | | 22.27 | C | | | FA |
| Turbidity | 8/8/22 15:11 | 8/8/22 15:11 | | | 0.96 | NTU | | | FA |
| Sulfide | 8/8/22 15:11 | 8/8/22 15:11 | | | 3 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/8/22 15:15

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-45V

Laboratory ID Number: BC14945

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC14949 | Aluminum, Dissolved | mg/L | 0.000274 | 0.010 | 0.100 | 0.105 | 0.107 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.113 | 0.113 | 0.107 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Antimony, Dissolved | mg/L | 0.000348 | 0.00100 | 0.100 | 0.0941 | 0.0943 | 0.0922 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 0.212 | 20.0 |
| BC14948 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0962 | 0.0975 | 0.0932 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 1.34 | 20.0 |
| BC14949 | Arsenic, Dissolved | mg/L | 0.0000204 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.0986 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14948 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.108 | 0.107 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.930 | 20.0 |
| BC14949 | Barium, Dissolved | mg/L | 0.0000403 | 0.00100 | 0.100 | 0.841 | 0.834 | 0.0972 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.836 | 20.0 |
| BC14948 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.209 | 0.207 | 0.0983 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.962 | 20.0 |
| BC14949 | Beryllium, Dissolved | mg/L | 0.0000394 | 0.000880 | 0.100 | 0.0947 | 0.0980 | 0.0969 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 3.43 | 20.0 |
| BC14948 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0939 | 0.0939 | 0.103 | 0.0850 to 0.115 | 93.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Boron, Dissolved | mg/L | -0.00159 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.993 | 0.850 to 1.15 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.985 | 0.850 to 1.15 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0972 | 0.0991 | 0.0970 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.94 | 20.0 |
| BC14948 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC14949 | Calcium, Dissolved | mg/L | -0.00736 | 0.152 | 5.00 | 30.8 | 30.2 | 4.77 | 4.25 to 5.75 | 100 | 70.0 to 130 | 1.97 | 20.0 |
| BC14948 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 16.6 | 16.7 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.601 | 20.0 |
| BC14948 | Chloride | mg/L | 0.00769 | 1.00 | 10.0 | 12.6 | 12.5 | 9.81 | 9.00 to 11.0 | 103 | 80.0 to 120 | 0.797 | 20.0 |
| BC14949 | Chromium, Dissolved | mg/L | 0.0000269 | 0.000440 | 0.100 | 0.0998 | 0.102 | 0.100 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC14948 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14949 | Cobalt, Dissolved | mg/L | -0.0000073 | 0.000147 | 0.100 | 0.0990 | 0.102 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 2.99 | 20.0 |
| BC14948 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Fluoride | mg/L | -0.0503 | 0.125 | 2.50 | 3.08 | 3.05 | 2.70 | 2.25 to 2.75 | 110 | 80.0 to 120 | 0.979 | 20.0 |
| BC14949 | Iron, Dissolved | mg/L | -0.000111 | 0.0176 | 0.2 | 1.06 | 1.07 | 0.196 | 0.170 to 0.230 | 95.5 | 70.0 to 130 | 0.939 | 20.0 |
| BC14948 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 1.17 | 1.16 | 0.203 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/8/22 15:15

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-45V

Laboratory ID Number: BC14945

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC14949 | Lead, Dissolved | mg/L | 0.0000056 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.108 | 0.105 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Lithium, Dissolved | mg/L | -0.00019 | 0.0154 | 0.200 | 0.284 | 0.287 | 0.202 | 0.170 to 0.230 | 99.9 | 70.0 to 130 | 1.05 | 20.0 |
| BC14948 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.287 | 0.288 | 0.204 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.348 | 20.0 |
| BC14949 | Magnesium, Dissolved | mg/L | -0.00230 | 0.0462 | 5.00 | 16.4 | 16.4 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 12.1 | 12.0 | 5.15 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.830 | 20.0 |
| BC14949 | Manganese, Dissolved | mg/L | 0.0000089 | 0.00033 | 0.100 | 0.117 | 0.120 | 0.102 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.53 | 20.0 |
| BC14948 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.144 | 0.143 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.697 | 20.0 |
| BC14947 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.004 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC14949 | Molybdenum, Dissolved | mg/L | 0.0000003 | 0.0002 | 0.100 | 0.100 | 0.101 | 0.0975 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.995 | 20.0 |
| BC14948 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.108 | 0.105 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Potassium, Dissolved | mg/L | 0.00115 | 0.367 | 10.0 | 11.9 | 12.4 | 9.93 | 8.50 to 11.5 | 93.8 | 70.0 to 130 | 4.12 | 20.0 |
| BC14948 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 13.1 | 13.1 | 10.0 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Selenium, Dissolved | mg/L | 0.0000613 | 0.00100 | 0.100 | 0.105 | 0.107 | 0.0995 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Silicon, Dissolved | mg/L | -0.00112 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 7.21 | 7.23 | 1.03 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.277 | 20.0 |
| BC14949 | Sodium, Dissolved | mg/L | -0.00096 | 0.0660 | 5.00 | 88.4 | 76.0 | 5.05 | 4.25 to 5.75 | 182 | 70.0 to 130 | 15.1 | 20.0 |
| BC14948 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 152 | 156 | 4.98 | 4.25 to 5.75 | 140 | 70.0 to 130 | 2.60 | 20.0 |
| BC14947 | Sulfate | mg/L | 0.265 | 2.0 | 20.0 | 25.0 | 25.1 | 20.3 | 18.0 to 22.0 | 97.3 | 80.0 to 120 | 0.399 | 20.0 |
| BC14949 | Thallium, Dissolved | mg/L | -0.0000045 | 0.000147 | 0.100 | 0.105 | 0.108 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.2 | 11.1 | 24.2 | | 101 | 80.0 to 120 | 0.897 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/8/22 15:15

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-45V

Laboratory ID Number: BC14945

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14948 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 268 | 50.8 | 45.0 to 55.0 | | | 5.09 | 10.0 |
| BC14948 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.11 | 0.001 | 1.90 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC14949 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 277 | 50.0 | 40.0 to 60.0 | | | 1.79 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-5

Location Code: WMWGORAPFB
Collected: 8/9/22 16:00
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14946

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 12:15 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 12:15 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U | |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 12:15 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 12:15 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U | |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 12:15 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U | |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 12:15 | | 1 | Not Detected | mg/L | | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 12:15 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U | |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 12:15 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | 0.0265 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U | |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | 0.000300 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U | |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U | |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U | |
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 15:03 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:25 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U | |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:17 | 8/23/22 11:17 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | Not Detected | mg/L | | 25 | U | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-5

Location Code: WMWGORAPFB

Collected: 8/9/22 16:00

Customer ID:

Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14946

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 20:37 | 8/16/22 20:37 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:26 | 8/12/22 13:26 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:42 | 8/12/22 14:42 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 14:56 | 8/18/22 14:56 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 8/9/22 16:00

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond Field Blank-5

Laboratory ID Number: BC14946

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14948 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.113 | 0.113 | 0.107 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0962 | 0.0975 | 0.0932 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 1.34 | 20.0 |
| BC14948 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.108 | 0.107 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.930 | 20.0 |
| BC14948 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.209 | 0.207 | 0.0983 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.962 | 20.0 |
| BC14948 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0939 | 0.0939 | 0.103 | 0.0850 to 0.115 | 93.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.985 | 0.850 to 1.15 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC14948 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 16.6 | 16.7 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.601 | 20.0 |
| BC14948 | Chloride | mg/L | 0.00769 | 1.00 | 10.0 | 12.6 | 12.5 | 9.81 | 9.00 to 11.0 | 103 | 80.0 to 120 | 0.797 | 20.0 |
| BC14948 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Fluoride | mg/L | -0.0503 | 0.125 | 2.50 | 3.08 | 3.05 | 2.70 | 2.25 to 2.75 | 110 | 80.0 to 120 | 0.979 | 20.0 |
| BC14948 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 1.17 | 1.16 | 0.203 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 0.858 | 20.0 |
| BC14948 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.108 | 0.105 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.287 | 0.288 | 0.204 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.348 | 20.0 |
| BC14948 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 12.1 | 12.0 | 5.15 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.830 | 20.0 |
| BC14948 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.144 | 0.143 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.697 | 20.0 |
| BC14947 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.004 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC14948 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.108 | 0.105 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 13.1 | 13.1 | 10.0 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 7.21 | 7.23 | 1.03 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.277 | 20.0 |
| BC14948 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 152 | 156 | 4.98 | 4.25 to 5.75 | 140 | 70.0 to 130 | 2.60 | 20.0 |
| BC14947 | Sulfate | mg/L | 0.265 | 2.0 | 20.0 | 25.0 | 25.1 | 20.3 | 18.0 to 22.0 | 97.3 | 80.0 to 120 | 0.399 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 8/9/22 16:00

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond Field Blank-5

Laboratory ID Number: BC14946

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | |
|---------|----------------------|-------|-----------|----------|-------|-------|-------|----------|-----------------|-----|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | Limit |
| BC14948 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.2 | 11.1 | 24.2 | | 101 | 80.0 to 120 | 0.897 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 8/9/22 16:00

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond Field Blank-5

Laboratory ID Number: BC14946

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------|-------------------|--------------|-------------|---------------|
| BC14948 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.11 | 0.001 | 1.90 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 15.0 |
| BC14949 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 277 | 50.0 | 40.0 to 60.0 | | | 1.79 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18VR

Location Code: WMWGORAP
Collected: 8/9/22 10:32
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14947

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 12:18 | | 1.015 | 0.0488 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 12:18 | | 1.015 | 2.49 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 12:18 | | 1.015 | 0.486 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 12:18 | | 1.015 | 0.0590 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 12:18 | | 1.015 | 0.820 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 12:18 | | 1 | 12.3 | mg/L | | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 12:18 | | 1.015 | 5.73 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 13:27 | | 10.15 | 111 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/12/22 09:50 | 8/16/22 13:31 | | 1.015 | 0.0475 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 8/12/22 09:50 | 8/16/22 13:31 | | 1.015 | 2.18 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/12/22 09:50 | 8/16/22 13:31 | | 1.015 | 0.196 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 8/12/22 09:50 | 8/16/22 13:31 | | 1.015 | 0.0498 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/12/22 09:50 | 8/16/22 13:31 | | 1.015 | 0.719 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/12/22 09:50 | 8/16/22 13:31 | | 1 | 11.2 | mg/L | | | | |
| Silicon, Dissolved | 8/12/22 09:50 | 8/16/22 13:31 | | 1.015 | 5.25 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/12/22 09:50 | 8/16/22 14:15 | | 10.15 | 147 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.210 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.00121 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.126 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.0000801 | mg/L | 0.000068 | 0.000203 | J | |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.000584 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.000256 | mg/L | 0.000068 | 0.000203 | | |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.000634 | mg/L | 0.000068 | 0.000203 | | |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.00608 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.0456 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.928 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18VR

Location Code: WMWGORAP

Collected: 8/9/22 10:32

Customer ID:

Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14947

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 15:10 | | 1.015 | 0.0000772 | mg/L | 0.000068 | 0.000203 | J |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | 0.00805 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | 0.000985 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | 0.116 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | 0.000236 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | 0.00476 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | 0.0459 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | 0.824 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/12/22 09:50 | 8/12/22 12:21 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:29 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:18 | 8/23/22 11:18 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: JS | | | | | | | |
| Alkalinity to pH 4.5 | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 228 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | 259 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: JS | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 223 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 4.70 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 21:01 | 8/16/22 21:01 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-18VR

Location Code: WMWGORAP

Collected: 8/9/22 10:32

Customer ID:

Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14947

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:27 | 8/12/22 13:27 | | 1 | 3.31 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:43 | 8/12/22 14:43 | | 1 | 0.133 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 14:57 | 8/18/22 14:57 | | 1 | 5.54 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/9/22 10:28 | 8/9/22 10:28 | | | 407.14 | uS/cm | | | FA |
| pH | 8/9/22 10:28 | 8/9/22 10:28 | | | 7.93 | SU | | | FA |
| Temperature | 8/9/22 10:28 | 8/9/22 10:28 | | | 19.20 | C | | | FA |
| Turbidity | 8/9/22 10:28 | 8/9/22 10:28 | | | 9.87 | NTU | | | FA |
| Sulfide | 8/9/22 10:28 | 8/9/22 10:28 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 10:32

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-18VR

Laboratory ID Number: BC14947

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC14949 | Aluminum, Dissolved | mg/L | 0.000274 | 0.010 | 0.100 | 0.105 | 0.107 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.113 | 0.113 | 0.107 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Antimony, Dissolved | mg/L | 0.000348 | 0.00100 | 0.100 | 0.0941 | 0.0943 | 0.0922 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 0.212 | 20.0 |
| BC14948 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0962 | 0.0975 | 0.0932 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 1.34 | 20.0 |
| BC14949 | Arsenic, Dissolved | mg/L | 0.0000204 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.0986 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14948 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.108 | 0.107 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.930 | 20.0 |
| BC14949 | Barium, Dissolved | mg/L | 0.0000403 | 0.00100 | 0.100 | 0.841 | 0.834 | 0.0972 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.836 | 20.0 |
| BC14948 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.209 | 0.207 | 0.0983 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.962 | 20.0 |
| BC14949 | Beryllium, Dissolved | mg/L | 0.0000394 | 0.000880 | 0.100 | 0.0947 | 0.0980 | 0.0969 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 3.43 | 20.0 |
| BC14948 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0939 | 0.0939 | 0.103 | 0.0850 to 0.115 | 93.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Boron, Dissolved | mg/L | -0.00159 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.993 | 0.850 to 1.15 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.985 | 0.850 to 1.15 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0972 | 0.0991 | 0.0970 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.94 | 20.0 |
| BC14948 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC14949 | Calcium, Dissolved | mg/L | -0.00736 | 0.152 | 5.00 | 30.8 | 30.2 | 4.77 | 4.25 to 5.75 | 100 | 70.0 to 130 | 1.97 | 20.0 |
| BC14948 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 16.6 | 16.7 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.601 | 20.0 |
| BC14948 | Chloride | mg/L | 0.00769 | 1.00 | 10.0 | 12.6 | 12.5 | 9.81 | 9.00 to 11.0 | 103 | 80.0 to 120 | 0.797 | 20.0 |
| BC14949 | Chromium, Dissolved | mg/L | 0.0000269 | 0.000440 | 0.100 | 0.0998 | 0.102 | 0.100 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC14948 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14949 | Cobalt, Dissolved | mg/L | -0.0000073 | 0.000147 | 0.100 | 0.0990 | 0.102 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 2.99 | 20.0 |
| BC14948 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Fluoride | mg/L | -0.0503 | 0.125 | 2.50 | 3.08 | 3.05 | 2.70 | 2.25 to 2.75 | 110 | 80.0 to 120 | 0.979 | 20.0 |
| BC14949 | Iron, Dissolved | mg/L | -0.000111 | 0.0176 | 0.2 | 1.06 | 1.07 | 0.196 | 0.170 to 0.230 | 95.5 | 70.0 to 130 | 0.939 | 20.0 |
| BC14948 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 1.17 | 1.16 | 0.203 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 10:32

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-18VR

Laboratory ID Number: BC14947

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|------------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC14949 | Lead, Dissolved | mg/L | 0.0000056 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.108 | 0.105 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Lithium, Dissolved | mg/L | -0.00019 | 0.0154 | 0.200 | 0.284 | 0.287 | 0.202 | 0.170 to 0.230 | 99.9 | 70.0 to 130 | 1.05 | 20.0 |
| BC14948 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.287 | 0.288 | 0.204 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.348 | 20.0 |
| BC14949 | Magnesium, Dissolved | mg/L | -0.00230 | 0.0462 | 5.00 | 16.4 | 16.4 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 12.1 | 12.0 | 5.15 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.830 | 20.0 |
| BC14949 | Manganese, Dissolved | mg/L | 0.0000089 | 0.00033 | 0.100 | 0.117 | 0.120 | 0.102 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.53 | 20.0 |
| BC14948 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.144 | 0.143 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.697 | 20.0 |
| BC14947 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00404 | 0.00406 | 0.004 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.494 | 20.0 |
| BC14949 | Molybdenum, Dissolved | mg/L | 0.0000003 | 0.0002 | 0.100 | 0.100 | 0.101 | 0.0975 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.995 | 20.0 |
| BC14948 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.108 | 0.105 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Potassium, Dissolved | mg/L | 0.00115 | 0.367 | 10.0 | 11.9 | 12.4 | 9.93 | 8.50 to 11.5 | 93.8 | 70.0 to 130 | 4.12 | 20.0 |
| BC14948 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 13.1 | 13.1 | 10.0 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Selenium, Dissolved | mg/L | 0.0000613 | 0.00100 | 0.100 | 0.105 | 0.107 | 0.0995 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Silicon, Dissolved | mg/L | -0.00112 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 7.21 | 7.23 | 1.03 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.277 | 20.0 |
| BC14949 | Sodium, Dissolved | mg/L | -0.00096 | 0.0660 | 5.00 | 88.4 | 76.0 | 5.05 | 4.25 to 5.75 | 182 | 70.0 to 130 | 15.1 | 20.0 |
| BC14948 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 152 | 156 | 4.98 | 4.25 to 5.75 | 140 | 70.0 to 130 | 2.60 | 20.0 |
| BC14947 | Sulfate | mg/L | 0.265 | 2.0 | 20.0 | 25.0 | 25.1 | 20.3 | 18.0 to 22.0 | 97.3 | 80.0 to 120 | 0.399 | 20.0 |
| BC14949 | Thallium, Dissolved | mg/L | -0.0000045 | 0.000147 | 0.100 | 0.105 | 0.108 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.2 | 11.1 | 24.2 | | 101 | 80.0 to 120 | 0.897 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 10:32

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-18VR

Laboratory ID Number: BC14947

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC14948 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 268 | 50.8 | 45.0 to 55.0 | | | 5.09 | 10.0 |
| BC14948 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.11 | 0.001 | 1.90 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC14949 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 277 | 50.0 | 40.0 to 60.0 | | | 1.79 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ - 22

Location Code: WMWGORAP
Collected: 8/9/22 12:22
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14948

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 12:21 | | 1.015 | 0.0448 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 12:21 | | 1.015 | 11.6 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 12:21 | | 1.015 | 0.978 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 12:21 | | 1.015 | 0.0710 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 12:21 | | 1.015 | 6.89 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 12:21 | | 1 | 13.4 | mg/L | | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 12:21 | | 1.015 | 6.24 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 13:30 | | 10.15 | 145 | mg/L | 0.3045 | 4.06 | RA | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/12/22 09:50 | 8/16/22 13:34 | | 1.015 | 0.0437 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 8/12/22 09:50 | 8/16/22 13:34 | | 1.015 | 11.3 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/12/22 09:50 | 8/16/22 13:34 | | 1.015 | 1.20 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 8/12/22 09:50 | 8/16/22 13:34 | | 1.015 | 0.0593 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/12/22 09:50 | 8/16/22 13:34 | | 1.015 | 6.62 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/12/22 09:50 | 8/16/22 13:34 | | 1 | 12.7 | mg/L | | | | |
| Silicon, Dissolved | 8/12/22 09:50 | 8/16/22 13:34 | | 1.015 | 5.94 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/12/22 09:50 | 8/16/22 14:19 | | 10.15 | 171 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U | |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | 0.00231 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | 0.106 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | 0.000258 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | 0.0386 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | 0.00294 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | 3.01 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ - 22

Location Code: WMWGORAP
Collected: 8/9/22 12:22
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14948

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 15:18 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | 0.00229 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | 0.105 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | 0.000241 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | 0.0373 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | 0.00284 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | 2.74 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/12/22 09:50 | 8/12/22 12:28 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:48 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:20 | 8/23/22 11:20 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: JS | | | | | | | |
| Alkalinity to pH 4.5 | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 282 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | 383 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: JS | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 276 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/18/22 08:35 | 8/18/22 11:02 | | 1 | 5.81 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 21:18 | 8/16/22 21:18 | | 1 | 1.08 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - PZ - 22

Location Code: WMWGORAP

Collected: 8/9/22 12:22

Customer ID:

Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14948

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:29 | 8/12/22 13:29 | | 1 | 2.32 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:44 | 8/12/22 14:44 | | 1 | 0.338 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 15:20 | 8/18/22 15:20 | | 3 | 53.8 | mg/L | 1.8 | 6 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/9/22 12:19 | 8/9/22 12:19 | | | 617.67 | uS/cm | | | FA |
| pH | 8/9/22 12:19 | 8/9/22 12:19 | | | 8.78 | SU | | | FA |
| Temperature | 8/9/22 12:19 | 8/9/22 12:19 | | | 21.99 | C | | | FA |
| Turbidity | 8/9/22 12:19 | 8/9/22 12:19 | | | 0.85 | NTU | | | FA |
| Sulfide | 8/9/22 12:19 | 8/9/22 12:19 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 12:22

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - PZ - 22

Laboratory ID Number: BC14948

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC14949 | Aluminum, Dissolved | mg/L | 0.000274 | 0.010 | 0.100 | 0.105 | 0.107 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.113 | 0.113 | 0.107 | 0.0850 to 0.115 | 113 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Antimony, Dissolved | mg/L | 0.000348 | 0.00100 | 0.100 | 0.0941 | 0.0943 | 0.0922 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 0.212 | 20.0 |
| BC14948 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0962 | 0.0975 | 0.0932 | 0.0850 to 0.115 | 96.2 | 70.0 to 130 | 1.34 | 20.0 |
| BC14949 | Arsenic, Dissolved | mg/L | 0.0000204 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.0986 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14948 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.108 | 0.107 | 0.102 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.930 | 20.0 |
| BC14949 | Barium, Dissolved | mg/L | 0.0000403 | 0.00100 | 0.100 | 0.841 | 0.834 | 0.0972 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.836 | 20.0 |
| BC14948 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.209 | 0.207 | 0.0983 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.962 | 20.0 |
| BC14949 | Beryllium, Dissolved | mg/L | 0.0000394 | 0.000880 | 0.100 | 0.0947 | 0.0980 | 0.0969 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 3.43 | 20.0 |
| BC14948 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0939 | 0.0939 | 0.103 | 0.0850 to 0.115 | 93.9 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Boron, Dissolved | mg/L | -0.00159 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.993 | 0.850 to 1.15 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 1.01 | 1.01 | 0.985 | 0.850 to 1.15 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0972 | 0.0991 | 0.0970 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.94 | 20.0 |
| BC14948 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.101 | 0.0998 | 0.0996 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.20 | 20.0 |
| BC14949 | Calcium, Dissolved | mg/L | -0.00736 | 0.152 | 5.00 | 30.8 | 30.2 | 4.77 | 4.25 to 5.75 | 100 | 70.0 to 130 | 1.97 | 20.0 |
| BC14948 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 16.6 | 16.7 | 5.13 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.601 | 20.0 |
| BC14948 | Chloride | mg/L | 0.00769 | 1.00 | 10.0 | 12.6 | 12.5 | 9.81 | 9.00 to 11.0 | 103 | 80.0 to 120 | 0.797 | 20.0 |
| BC14949 | Chromium, Dissolved | mg/L | 0.0000269 | 0.000440 | 0.100 | 0.0998 | 0.102 | 0.100 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC14948 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14949 | Cobalt, Dissolved | mg/L | -0.0000073 | 0.000147 | 0.100 | 0.0990 | 0.102 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 2.99 | 20.0 |
| BC14948 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.105 | 0.103 | 0.104 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.92 | 20.0 |
| BC14948 | Fluoride | mg/L | -0.0503 | 0.125 | 2.50 | 3.08 | 3.05 | 2.70 | 2.25 to 2.75 | 110 | 80.0 to 120 | 0.979 | 20.0 |
| BC14949 | Iron, Dissolved | mg/L | -0.000111 | 0.0176 | 0.2 | 1.06 | 1.07 | 0.196 | 0.170 to 0.230 | 95.5 | 70.0 to 130 | 0.939 | 20.0 |
| BC14948 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 1.17 | 1.16 | 0.203 | 0.170 to 0.230 | 96.0 | 70.0 to 130 | 0.858 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 12:22

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - PZ - 22

Laboratory ID Number: BC14948

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14949 | Lead, Dissolved | mg/L | 0.0000056 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.108 | 0.105 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Lithium, Dissolved | mg/L | -0.00019 | 0.0154 | 0.200 | 0.284 | 0.287 | 0.202 | 0.170 to 0.230 | 99.9 | 70.0 to 130 | 1.05 | 20.0 |
| BC14948 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.287 | 0.288 | 0.204 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.348 | 20.0 |
| BC14949 | Magnesium, Dissolved | mg/L | -0.00230 | 0.0462 | 5.00 | 16.4 | 16.4 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 12.1 | 12.0 | 5.15 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.830 | 20.0 |
| BC14949 | Manganese, Dissolved | mg/L | 0.0000089 | 0.00033 | 0.100 | 0.117 | 0.120 | 0.102 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.53 | 20.0 |
| BC14948 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.144 | 0.143 | 0.105 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.697 | 20.0 |
| BC14950 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00388 | 0.00401 | 0.004 | 0.00340 to 0.00460 | 97.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC14949 | Molybdenum, Dissolved | mg/L | 0.0000003 | 0.0002 | 0.100 | 0.100 | 0.101 | 0.0975 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.995 | 20.0 |
| BC14948 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.108 | 0.105 | 0.101 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14949 | Potassium, Dissolved | mg/L | 0.00115 | 0.367 | 10.0 | 11.9 | 12.4 | 9.93 | 8.50 to 11.5 | 93.8 | 70.0 to 130 | 4.12 | 20.0 |
| BC14948 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 13.1 | 13.1 | 10.0 | 8.50 to 11.5 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Selenium, Dissolved | mg/L | 0.0000613 | 0.00100 | 0.100 | 0.105 | 0.107 | 0.0995 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14948 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.108 | 0.108 | 0.106 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 0.00 | 20.0 |
| BC14949 | Silicon, Dissolved | mg/L | -0.00112 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14948 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 7.21 | 7.23 | 1.03 | 0.850 to 1.15 | 97.0 | 70.0 to 130 | 0.277 | 20.0 |
| BC14949 | Sodium, Dissolved | mg/L | -0.00096 | 0.0660 | 5.00 | 88.4 | 76.0 | 5.05 | 4.25 to 5.75 | 182 | 70.0 to 130 | 15.1 | 20.0 |
| BC14948 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 152 | 156 | 4.98 | 4.25 to 5.75 | 140 | 70.0 to 130 | 2.60 | 20.0 |
| BC14950 | Sulfate | mg/L | 0.272 | 2.0 | 20.0 | 21.1 | 20.3 | 20.4 | 18.0 to 22.0 | 106 | 80.0 to 120 | 3.86 | 20.0 |
| BC14949 | Thallium, Dissolved | mg/L | -0.0000045 | 0.000147 | 0.100 | 0.105 | 0.108 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14948 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14948 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.2 | 11.1 | 24.2 | | 101 | 80.0 to 120 | 0.897 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/9/22 12:22

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - PZ - 22

Laboratory ID Number: BC14948

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|-------------------|----------------|---------|-------------|------|------------|
| BC14948 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 268 | 50.8 | 45.0 to 55.0 | | | 5.09 | 10.0 |
| BC14948 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.11 | 0.001 | 1.90 | 1.80 to 2.20 | 106 | 90.0 to 110 | 0.00 | 15.0 |
| BC14949 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 277 | 50.0 | 40.0 to 60.0 | | | 1.79 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-26H

Location Code: WMWGORAP
Collected: 8/10/22 10:53
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14949

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 12:38 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 12:38 | | 1.015 | 28.7 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 12:38 | | 1.015 | 0.940 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 12:38 | | 1.015 | 0.0924 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 12:38 | | 1.015 | 12.2 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 12:38 | | 1 | 23.8 | mg/L | | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 12:38 | | 1.015 | 11.1 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 13:47 | | 10.15 | 73.3 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/12/22 09:50 | 8/16/22 13:38 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 8/12/22 09:50 | 8/16/22 13:38 | | 1.015 | 25.8 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/12/22 09:50 | 8/16/22 13:38 | | 1.015 | 0.869 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 8/12/22 09:50 | 8/16/22 13:38 | | 1.015 | 0.0842 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/12/22 09:50 | 8/16/22 13:38 | | 1.015 | 11.5 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/12/22 09:50 | 8/16/22 13:38 | | 1 | 22.9 | mg/L | | | | |
| Silicon, Dissolved | 8/12/22 09:50 | 8/16/22 13:38 | | 1.015 | 10.7 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/12/22 09:50 | 8/16/22 14:22 | | 10.15 | 79.3 | mg/L | 0.3045 | 4.06 | RA | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | 0.0171 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | 0.000161 | mg/L | 0.000081 | 0.000203 | J | |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | 0.766 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | 0.000311 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | 0.0181 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U | |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | 2.55 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-26H

Location Code: WMWGORAP
Collected: 8/10/22 10:53
Customer ID:
Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14949

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 15:50 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | 0.000189 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | 0.734 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | 0.000280 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | 0.0175 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | 0.000106 | mg/L | 0.000102 | 0.000203 | J |
| * Potassium, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | 2.52 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 8/12/22 09:50 | 8/12/22 12:35 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:52 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:27 | 8/23/22 11:27 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/22/22 13:15 | 8/22/22 14:02 | | 1 | 244 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | 282 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/22/22 13:15 | 8/22/22 14:02 | | 1 | 239 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/22/22 13:15 | 8/22/22 14:02 | | 1 | 4.80 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 22:49 | 8/16/22 22:49 | | 1 | 1.02 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-26H

Location Code: WMWGORAP

Collected: 8/10/22 10:53

Customer ID:

Submittal Date: 8/11/22 08:37

Laboratory ID Number: BC14949

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:47 | 8/12/22 13:47 | | 1 | 2.33 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:56 | 8/12/22 14:56 | | 1 | 0.131 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 15:15 | 8/18/22 15:15 | | 1 | 4.09 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 8/10/22 10:49 | 8/10/22 10:49 | | | 403.44 | uS/cm | | | FA |
| pH | 8/10/22 10:49 | 8/10/22 10:49 | | | 7.13 | SU | | | FA |
| Temperature | 8/10/22 10:49 | 8/10/22 10:49 | | | 23.47 | C | | | FA |
| Turbidity | 8/10/22 10:49 | 8/10/22 10:49 | | | 1.78 | NTU | | | FA |
| Sulfide | 8/10/22 10:49 | 8/10/22 10:49 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/10/22 10:53

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: BC14949

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14949 | Aluminum, Dissolved | mg/L | 0.000274 | 0.010 | 0.100 | 0.105 | 0.107 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14950 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.114 | 0.108 | 0.107 | 0.0850 to 0.115 | 114 | 70.0 to 130 | 5.41 | 20.0 |
| BC14949 | Antimony, Dissolved | mg/L | 0.000348 | 0.00100 | 0.100 | 0.0941 | 0.0943 | 0.0922 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 0.212 | 20.0 |
| BC14950 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0955 | 0.0966 | 0.0932 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 1.15 | 20.0 |
| BC14949 | Arsenic, Dissolved | mg/L | 0.0000204 | 0.000176 | 0.100 | 0.103 | 0.104 | 0.0986 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.966 | 20.0 |
| BC14950 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14949 | Barium, Dissolved | mg/L | 0.0000403 | 0.00100 | 0.100 | 0.841 | 0.834 | 0.0972 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.836 | 20.0 |
| BC14950 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.102 | 0.101 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC14949 | Beryllium, Dissolved | mg/L | 0.0000394 | 0.000880 | 0.100 | 0.0947 | 0.0980 | 0.0969 | 0.0850 to 0.115 | 94.7 | 70.0 to 130 | 3.43 | 20.0 |
| BC14950 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0991 | 0.0965 | 0.103 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 2.66 | 20.0 |
| BC14949 | Boron, Dissolved | mg/L | -0.00159 | 0.0650 | 1.00 | 1.03 | 1.05 | 0.993 | 0.850 to 1.15 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC14950 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 0.949 | 0.948 | 0.985 | 0.850 to 1.15 | 94.9 | 70.0 to 130 | 0.105 | 20.0 |
| BC14949 | Cadmium, Dissolved | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0972 | 0.0991 | 0.0970 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 1.94 | 20.0 |
| BC14950 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.100 | 0.0996 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.96 | 20.0 |
| BC14949 | Calcium, Dissolved | mg/L | -0.00736 | 0.152 | 5.00 | 30.8 | 30.2 | 4.77 | 4.25 to 5.75 | 100 | 70.0 to 130 | 1.97 | 20.0 |
| BC14950 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 5.25 | 5.22 | 5.13 | 4.25 to 5.75 | 105 | 70.0 to 130 | 0.573 | 20.0 |
| BC14950 | Chloride | mg/L | 0.0187 | 1.00 | 10.0 | 9.87 | 9.85 | 9.75 | 9.00 to 11.0 | 98.7 | 80.0 to 120 | 0.203 | 20.0 |
| BC14949 | Chromium, Dissolved | mg/L | 0.0000269 | 0.000440 | 0.100 | 0.0998 | 0.102 | 0.100 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.18 | 20.0 |
| BC14950 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.108 | 0.104 | 0.104 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 3.77 | 20.0 |
| BC14949 | Cobalt, Dissolved | mg/L | -0.0000073 | 0.000147 | 0.100 | 0.0990 | 0.102 | 0.101 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 2.99 | 20.0 |
| BC14950 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.104 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14950 | Fluoride | mg/L | -0.0512 | 0.125 | 2.50 | 2.70 | 2.64 | 2.63 | 2.25 to 2.75 | 108 | 80.0 to 120 | 2.25 | 20.0 |
| BC14949 | Iron, Dissolved | mg/L | -0.000111 | 0.0176 | 0.2 | 1.06 | 1.07 | 0.196 | 0.170 to 0.230 | 95.5 | 70.0 to 130 | 0.939 | 20.0 |
| BC14950 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 0.203 | 0.201 | 0.203 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.990 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/10/22 10:53

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: BC14949

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14949 | Lead, Dissolved | mg/L | 0.0000056 | 0.000147 | 0.100 | 0.103 | 0.107 | 0.103 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC14950 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.106 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14949 | Lithium, Dissolved | mg/L | -0.00019 | 0.0154 | 0.200 | 0.284 | 0.287 | 0.202 | 0.170 to 0.230 | 99.9 | 70.0 to 130 | 1.05 | 20.0 |
| BC14950 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.219 | 0.221 | 0.204 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.909 | 20.0 |
| BC14949 | Magnesium, Dissolved | mg/L | -0.00230 | 0.0462 | 5.00 | 16.4 | 16.4 | 5.01 | 4.25 to 5.75 | 98.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14950 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 5.32 | 5.31 | 5.15 | 4.25 to 5.75 | 106 | 70.0 to 130 | 0.188 | 20.0 |
| BC14949 | Manganese, Dissolved | mg/L | 0.0000089 | 0.00033 | 0.100 | 0.117 | 0.120 | 0.102 | 0.0850 to 0.115 | 99.5 | 70.0 to 130 | 2.53 | 20.0 |
| BC14950 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.109 | 0.105 | 0.105 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.74 | 20.0 |
| BC14950 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00388 | 0.00401 | 0.004 | 0.00340 to 0.00460 | 97.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC14949 | Molybdenum, Dissolved | mg/L | 0.0000003 | 0.0002 | 0.100 | 0.100 | 0.101 | 0.0975 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 0.995 | 20.0 |
| BC14950 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.106 | 0.104 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC14949 | Potassium, Dissolved | mg/L | 0.00115 | 0.367 | 10.0 | 11.9 | 12.4 | 9.93 | 8.50 to 11.5 | 93.8 | 70.0 to 130 | 4.12 | 20.0 |
| BC14950 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 10.4 | 10.0 | 10.0 | 8.50 to 11.5 | 104 | 70.0 to 130 | 3.92 | 20.0 |
| BC14949 | Selenium, Dissolved | mg/L | 0.0000613 | 0.00100 | 0.100 | 0.105 | 0.107 | 0.0995 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 1.89 | 20.0 |
| BC14950 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.109 | 0.108 | 0.106 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.922 | 20.0 |
| BC14949 | Silicon, Dissolved | mg/L | -0.00112 | 0.0440 | 1.00 | 11.6 | 11.6 | 1.00 | 0.850 to 1.15 | 90.0 | 70.0 to 130 | 0.00 | 20.0 |
| BC14950 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 1.03 | 1.02 | 1.03 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14949 | Sodium, Dissolved | mg/L | -0.00096 | 0.0660 | 5.00 | 88.4 | 76.0 | 5.05 | 4.25 to 5.75 | 182 | 70.0 to 130 | 15.1 | 20.0 |
| BC14950 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 5.18 | 5.17 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.193 | 20.0 |
| BC14950 | Sulfate | mg/L | 0.272 | 2.0 | 20.0 | 21.1 | 20.3 | 20.4 | 18.0 to 22.0 | 106 | 80.0 to 120 | 3.86 | 20.0 |
| BC14949 | Thallium, Dissolved | mg/L | -0.0000045 | 0.000147 | 0.100 | 0.105 | 0.108 | 0.106 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 2.82 | 20.0 |
| BC14950 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.105 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14949 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.3 | 10.7 | 23.9 | | 103 | 80.0 to 120 | 5.45 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 8/10/22 10:53

Customer ID:

Delivery Date: 8/11/22 08:37

Description: Gorgas Ash Pond - MW-26H

Laboratory ID Number: BC14949

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC14949 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 247 | 52.6 | 45.0 to 55.0 | | | 1.22 | 10.0 |
| BC14950 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.01 | 0.020 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14949 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 277 | 50.0 | 40.0 to 60.0 | | | 1.79 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-6

Location Code: WMWGORAPFB
Collected: 8/10/22 11:30
Customer ID:
Submittal Date: 8/11/22 08:38

Laboratory ID Number: BC14950

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 8/12/22 13:39 | 8/16/22 12:42 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 8/12/22 13:39 | 8/16/22 12:42 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 8/12/22 13:39 | 8/16/22 12:42 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 8/12/22 13:39 | 8/16/22 12:42 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 8/12/22 13:39 | 8/16/22 12:42 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 8/12/22 13:39 | 8/16/22 12:42 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 8/12/22 13:39 | 8/16/22 12:42 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 8/12/22 13:39 | 8/16/22 12:42 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | 0.000222 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U |
| * Molybdenum, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 8/12/22 13:39 | 8/12/22 15:57 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 8/15/22 15:58 | 8/15/22 22:56 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 8/23/22 11:27 | 8/23/22 11:27 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 8/11/22 12:48 | 8/12/22 12:49 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-6

Location Code: WMWGORAPFB
Collected: 8/10/22 11:30
Customer ID:
Submittal Date: 8/11/22 08:38

Laboratory ID Number: BC14950

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/16/22 23:47 | 8/16/22 23:47 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/12/22 13:48 | 8/12/22 13:48 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/12/22 14:58 | 8/12/22 14:58 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/18/22 15:16 | 8/18/22 15:16 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 8/10/22 11:30

Customer ID:

Delivery Date: 8/11/22 08:38

Description: Gorgas Ash Pond Field Blank-6

Laboratory ID Number: BC14950

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14950 | Aluminum, Total | mg/L | 0.000957 | 0.010 | 0.100 | 0.114 | 0.108 | 0.107 | 0.0850 to 0.115 | 114 | 70.0 to 130 | 5.41 | 20.0 |
| BC14950 | Antimony, Total | mg/L | 0.000490 | 0.00100 | 0.100 | 0.0955 | 0.0966 | 0.0932 | 0.0850 to 0.115 | 95.5 | 70.0 to 130 | 1.15 | 20.0 |
| BC14950 | Arsenic, Total | mg/L | 0.0000136 | 0.000176 | 0.100 | 0.105 | 0.106 | 0.102 | 0.0850 to 0.115 | 105 | 70.0 to 130 | 0.948 | 20.0 |
| BC14950 | Barium, Total | mg/L | -0.0000005 | 0.00100 | 0.100 | 0.102 | 0.101 | 0.0983 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC14950 | Beryllium, Total | mg/L | 0.0000219 | 0.000880 | 0.100 | 0.0991 | 0.0965 | 0.103 | 0.0850 to 0.115 | 99.1 | 70.0 to 130 | 2.66 | 20.0 |
| BC14950 | Boron, Total | mg/L | 0.000523 | 0.0650 | 1.00 | 0.949 | 0.948 | 0.985 | 0.850 to 1.15 | 94.9 | 70.0 to 130 | 0.105 | 20.0 |
| BC14950 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.103 | 0.100 | 0.0996 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 2.96 | 20.0 |
| BC14950 | Calcium, Total | mg/L | -0.00334 | 0.152 | 5.00 | 5.25 | 5.22 | 5.13 | 4.25 to 5.75 | 105 | 70.0 to 130 | 0.573 | 20.0 |
| BC14950 | Chloride | mg/L | 0.0187 | 1.00 | 10.0 | 9.87 | 9.85 | 9.75 | 9.00 to 11.0 | 98.7 | 80.0 to 120 | 0.203 | 20.0 |
| BC14950 | Chromium, Total | mg/L | 0.0000357 | 0.000440 | 0.100 | 0.108 | 0.104 | 0.104 | 0.0850 to 0.115 | 108 | 70.0 to 130 | 3.77 | 20.0 |
| BC14950 | Cobalt, Total | mg/L | -0.0000034 | 0.000147 | 0.100 | 0.107 | 0.103 | 0.104 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 3.81 | 20.0 |
| BC14950 | Fluoride | mg/L | -0.0512 | 0.125 | 2.50 | 2.70 | 2.64 | 2.63 | 2.25 to 2.75 | 108 | 80.0 to 120 | 2.25 | 20.0 |
| BC14950 | Iron, Total | mg/L | 0.000300 | 0.0176 | 0.2 | 0.203 | 0.201 | 0.203 | 0.170 to 0.230 | 102 | 70.0 to 130 | 0.990 | 20.0 |
| BC14950 | Lead, Total | mg/L | 0.0000073 | 0.000147 | 0.100 | 0.106 | 0.107 | 0.106 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.939 | 20.0 |
| BC14950 | Lithium, Total | mg/L | 0.000186 | 0.0154 | 0.200 | 0.219 | 0.221 | 0.204 | 0.170 to 0.230 | 110 | 70.0 to 130 | 0.909 | 20.0 |
| BC14950 | Magnesium, Total | mg/L | 0.00564 | 0.0462 | 5.00 | 5.32 | 5.31 | 5.15 | 4.25 to 5.75 | 106 | 70.0 to 130 | 0.188 | 20.0 |
| BC14950 | Manganese, Total | mg/L | 0.0000168 | 0.00033 | 0.100 | 0.109 | 0.105 | 0.105 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 3.74 | 20.0 |
| BC14950 | Mercury, Total by CVAA | mg/L | 2.000E-05 | 0.000500 | 0.004 | 0.00388 | 0.00401 | 0.004 | 0.00340 to 0.00460 | 97.0 | 70.0 to 130 | 3.30 | 20.0 |
| BC14950 | Molybdenum, Total | mg/L | 0.0000231 | 0.0002 | 0.100 | 0.106 | 0.104 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 1.90 | 20.0 |
| BC14950 | Potassium, Total | mg/L | 0.00333 | 0.367 | 10.0 | 10.4 | 10.0 | 10.0 | 8.50 to 11.5 | 104 | 70.0 to 130 | 3.92 | 20.0 |
| BC14950 | Selenium, Total | mg/L | 0.0000506 | 0.00100 | 0.100 | 0.109 | 0.108 | 0.106 | 0.0850 to 0.115 | 109 | 70.0 to 130 | 0.922 | 20.0 |
| BC14950 | Silicon, Total | mg/L | 0.00144 | 0.0440 | 1.00 | 1.03 | 1.02 | 1.03 | 0.850 to 1.15 | 103 | 70.0 to 130 | 0.976 | 20.0 |
| BC14950 | Sodium, Total | mg/L | -0.000494 | 0.0660 | 5.00 | 5.18 | 5.17 | 4.98 | 4.25 to 5.75 | 104 | 70.0 to 130 | 0.193 | 20.0 |
| BC14950 | Sulfate | mg/L | 0.272 | 2.0 | 20.0 | 21.1 | 20.3 | 20.4 | 18.0 to 22.0 | 106 | 80.0 to 120 | 3.86 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 8/10/22 11:30

Customer ID:

Delivery Date: 8/11/22 08:38

Description: Gorgas Ash Pond Field Blank-6

Laboratory ID Number: BC14950

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | |
|---------|----------------------|-------|-----------|----------|-------|-------|-------|----------|-----------------|-----|-------------|------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | Limit |
| BC14950 | Thallium, Total | mg/L | 0.0000027 | 0.000147 | 0.100 | 0.107 | 0.105 | 0.107 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 1.89 | 20.0 |
| BC14949 | Total Organic Carbon | mg/L | 0.151 | 1.00 | 10.0 | 11.3 | 10.7 | 23.9 | | 103 | 80.0 to 120 | 5.45 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 8/10/22 11:30

Customer ID:

Delivery Date: 8/11/22 08:38

Description: Gorgas Ash Pond Field Blank-6

Laboratory ID Number: BC14950

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC14950 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.01 | 0.200 | 2.00 | 2.01 | 0.020 | 1.89 | 1.80 to 2.20 | 100 | 90.0 to 110 | 0.00 | 15.0 |
| BC14949 | Solids, Dissolved | mg/L | 0.00 | 25.0 | | | 277 | 50.0 | 40.0 to 60.0 | | | 1.79 | 10.0 |

Comments:

Definitions

Project Number: WMWGORAP_1377

| Abbreviation | Description |
|--------------|---|
| DF | Dilution Factor |
| LCS | Lab Control Sample |
| LFM | Lab Fortified Matrix |
| MB | Method Blank |
| MDL | Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero. |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| Prec | Precision (% RPD) |
| Q | Qualifier; comment used to note deviations or additional information associated with analytical results. |
| QC | Quality Control |
| Rec | Recovery of Matrix Spike |
| RL | Reporting Limit; lowest concentration at which an analyte can be quantitatively measured. |
| Vio Spec | Violation Specification; regulatory limit which has been exceeded by the sample analyzed. |

| Qualifier | Description |
|-----------|--|
| A | Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L. |
| AI | Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are invalid due to pH>12SU and not reported. |
| FA | Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative. |
| J | Reported value is an estimate because concentration is less than reporting limit. |
| R | Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit. |
| RA | Matrix spike is invalid due to sample concentration. |
| U | Compound was analyzed, but not detected. |



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | | |
|-------------------------|-------------------------|------------|--------------------------|-----------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer | |
| | Collector: TJ Daugherty | | Requested By | Greg Dyer |
| | | | | Location |

| | | | | | | | | | | | | |
|---------|---|------------------|--------|---|------------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | Hg | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
| | 2 | Dissolved Metals | 500 mL | 4 | Nitrates/Nitrites, TOC | 250 mL | 6 | Anions | 250 mL | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-------------|------------|---------|
| MW-09R | 07/19/2022 | 14:15 | 6 | Groundwater | | BC13414 |
| MW-9V | 07/19/2022 | 16:00 | 6 | Groundwater | | BC13415 |
| MW-03V | 07/20/2022 | 10:05 | 6 | Groundwater | | BC13416 |
| MW-3 | 07/20/2022 | 11:45 | 6 | Groundwater | | BC13417 |
| FB-2 | 07/20/2022 | 12:30 | 5 | Field Blank | | BC13418 |
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| Relinquished By | Received By | Date/Time |
| | | 07/20/2022 15:10 |
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|--------------|----------------|---|------------------|
| SmarTroll ID | 7586-41446-5-5 | All pH requirements have been met <input checked="" type="checkbox"/> | |
| Turbidity ID | 4677-23342-4-1 | Cooler Temp | 1.5 °C |
| Sample Event | 1377 | Thermometer ID | 7044-38282-2-2 |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|---------------|--------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| Collector | Dallas Gentry | Requested By | Greg Dyer |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | | | | | |
|---------|---|------------------|--------|---|----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | Hg | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
| | 2 | Dissolved Metals | 500 mL | 4 | Nitrate/Nitrite; TOC | 250 mL | 6 | Anions | 250 mL | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-2 | 07/19/2022 | 09:41 | 6 | Groundwater | | BC13419 |
| MW-12 | 07/19/2022 | 12:31 | 6 | Groundwater | | BC13420 |
| MW-11R | 07/19/2022 | 14:42 | 6 | Groundwater | | BC13421 |
| MW-11R dup | 07/19/2022 | 14:42 | 6 | Sample Duplicate | | BC13422 |
| FB-1 | 07/19/2022 | 15:25 | 5 | Field Blank | | BC13423 |
| MW-12V | 07/20/2022 | 10:27 | 6 | Groundwater | | BC13424 |
| MW-13R | 07/20/2022 | 13:16 | 6 | Groundwater | | BC13425 |
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| Relinquished By | Received By | Date/Time |
| | | 07/21/2022 07:15 |
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|--------------|----------------|-----------------------------------|-------------------------------------|
| SmarTroll ID | 7586-41444-5-3 | All pH requirements have been met | <input checked="" type="checkbox"/> |
| Turbidity ID | 3901-20010-2-2 | Cooler Temp | 1.8 °C |
| Sample Event | 1377 | Thermometer ID | 7044-38282-2-2 |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|-----------------|--------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| Collector | Anthony Goggins | Requested By | Greg Dyer |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | | | | | |
|---------|---|------------------|--------|---|----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | Hg | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
| | 2 | Dissolved Metals | 500 mL | 4 | Nitrite/Nitrate; TOC | 250 mL | 6 | Anions | 250 mL | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-------------|------------|---------|
| MW-36H | 07/20/2022 | 12:50 | 6 | Groundwater | | BC13426 |
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| Relinquished By | Received By | Date/Time |
| <i>Anthony Goggins</i> | <i>Greg Dyer</i> | 07/21/2022 07:30 |
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|--------------|----------------|-----------------------------------|-------------------------------------|
| SmarTroll ID | 7586-41442-5-1 | All pH requirements have been met | <input checked="" type="checkbox"/> |
| Turbidity ID | 4677-23343-4-2 | Cooler Temp | 1.8 °C |
| Sample Event | 1377 | Thermometer ID | 7044-38282-2-2 |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|--------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Dallas Gentry | | Requested By: Greg Dyer |
| | | Location | Gorgas Ash Pond |

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|---------|---|------------------|--------|---|----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | Hg | 500 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
| | 2 | Dissolved Metals | 500 mL | 4 | Nitrate/Nitrite; TOC | 250 mL | 6 | Anions | 250 mL | 8 | N/A | N/A |

Comments: Dissolved Metals bottle not collected for field filtered set at MW-7

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-7 | 07/25/2022 | 12:05 | 6 | Groundwater | | BC14020 |
| MW-7 DIS | 07/25/2022 | 12:05 | 5 | Field Filtered | | BC14021 |
| PZ-16 | 07/26/2022 | 10:58 | 6 | Groundwater | | BC14022 |
| MW-37HR | 07/26/2022 | 14:03 | 6 | Groundwater | | BC14023 |
| MW-47 | 07/26/2022 | 16:01 | 6 | Groundwater | | BC14024 |
| FB-3 | 07/26/2022 | 16:30 | 5 | Field Blank | | BC14025 |
| MW-36V | 07/27/2022 | 09:42 | 6 | Groundwater | | BC14026 |
| MW-27HR | 07/27/2022 | 11:27 | 6 | Groundwater | | BC14027 |
| MW-28H | 07/27/2022 | 13:03 | 6 | Groundwater | | BC14028 |
| PZ-18R | 07/27/2022 | 14:35 | 6 | Groundwater | | BC14029 |
| PZ-18R dup | 07/27/2022 | 14:35 | 6 | Sample Duplicate | | BC14030 |
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| Relinquished By | Received By | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 07/28/2022 07:38 |
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|----------------|------------------|---|
| SmarTroll ID | 7586-41444-5-3 | All pH requirements have been met <input checked="" type="checkbox"/> |
| Turbidity ID | 3901-20010 | |
| Sample Event | 1377 | |
| | | |
| Cooler Temp | 1.1 °C | |
| Thermometer ID | 7044-38282-2-2 | |
| pH Strip ID | 10275-59506-10-2 | |

Bottles/Pre-Preserved Bottles are provided by the GTL
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|-------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: TJ Daugherty | | Requested By |
| | | Location | Gorgas Ash Pond |

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|---------|---|------------------|--------|---|----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | Hg | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
| | 2 | Dissolved Metals | 500 mL | 4 | Nitrate/Nitrite, TOC | 250 mL | 6 | Anions | 250 mL | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-6D | 07/25/2022 | 11:40 | 6 | Groundwater | | BC14032 |
| MW-6V | 07/25/2022 | 17:55 | 6 | Groundwater | | BC14033 |
| MW-6V DIS | 07/25/2022 | 17:55 | 5 | Field Filtered | | BC14034 |
| MW-6S | 07/26/2022 | 10:00 | 6 | Groundwater | | BC14035 |
| MW-6S Dup | 07/26/2022 | 10:00 | 6 | Sample Duplicate | | BC14036 |
| MW-23H | 07/26/2022 | 11:30 | 6 | Groundwater | | BC14037 |
| MW-23V | 07/26/2022 | 12:44 | 6 | Groundwater | | BC14038 |
| MW-41HS | 07/26/2022 | 14:15 | 6 | Groundwater | | BC14039 |
| MW-24H | 07/27/2022 | 10:10 | 6 | Groundwater | | BC14040 |
| MW-24H Dup | 07/27/2022 | 10:10 | 6 | Sample Duplicate | | BC14041 |
| MW-41HD | 07/27/2022 | 11:45 | 6 | Groundwater | | BC14042 |
| FB-4 | 07/27/2022 | 12:30 | 5 | Field Blank | | BC14043 |
| MW-42H | 07/27/2022 | 14:07 | 6 | Groundwater | | BC14044 |
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| Relinquished By | Received By | Date/Time |
| | | 07/28/2022 07:53 |
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| SmarTroll ID | 7586-41446-5-5 | All pH requirements have been met <input checked="" type="checkbox"/> |
| Turbidity ID | 4677-23343-4-2 | |
| Sample Event | 1377 | |
| Cooler Temp | 1.5 °C | |
| Thermometer ID | 7044-38282-2-2 | |
| pH Strip ID | 10275-59506-10-2 | |

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|--------------|--------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| Collector | TJ Daugherty | Requested By | Greg Dyer |
| | | Location | Gorgas Ash Pond |

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|---------|---|------------------|--------|---|----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | Hg | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
| | 2 | Dissolved Metals | 500 mL | 4 | Nitrate/Nitrite, TOC | 250 mL | 6 | Anions | 250 mL | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-8 | 08/02/2022 | 10:10 | 6 | Groundwater | | BC14534 |
| MW-40H | 08/02/2022 | 12:40 | 6 | Groundwater | | BC14535 |
| MW-05R | 08/02/2022 | 15:40 | 6 | Groundwater | | BC14536 |
| MW-18R | 08/03/2022 | 10:08 | 6 | Groundwater | | BC14537 |
| MW-18R Dup | 08/03/2022 | 10:08 | 6 | Sample Duplicate | | BC14538 |
| MW-29H | 08/03/2022 | 12:03 | 6 | Groundwater | | BC14539 |
| MW-19 | 08/03/2022 | 13:50 | 6 | Groundwater | | BC14540 |
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| Relinquished By | Received By | Date/Time |
| | | 08/04/2022 08:19 |
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|--------------|----------------|-----------------------------------|-------------------------------------|
| SmarTroll ID | 7586-41446-5-5 | All pH requirements have been met | <input checked="" type="checkbox"/> |
| Turbidity ID | 4677-23343-4-2 | Cooler Temp | 1.4 °C |
| Sample Event | 1377 | Thermometer ID | 7044-38282-2-2 |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

| | | | |
|-------------------------|-------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: TJ Daugherty | | Requested By: Greg Dyer |
| | | Location | Gorgas Ash Pond |

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|---------|---|------------------|--------|---|------------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | Hg | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
| | 2 | Dissolved Metals | 500 mL | 4 | Nitrates/Nitrites, TOC | 250 mL | 6 | Anions | 250 mL | 8 | N/A | N/A |

 Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-------------|------------|---------|
| MW-45V | 08/08/2022 | 15:15 | 6 | Groundwater | | BC14945 |
| FB-5 | 08/08/2022 | 16:00 | 5 | Field Blank | | BC14946 |
| MW-18VR | 08/09/2022 | 10:32 | 6 | Groundwater | | BC14947 |
| PZ-22 | 08/09/2022 | 12:22 | 6 | Groundwater | | BC14948 |
| MW-26H | 08/10/2022 | 10:53 | 6 | Groundwater | | BC14949 |
| FB-6 | 08/10/2022 | 11:30 | 5 | Field Blank | | BC14950 |
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| Relinquished By | Received By | Date/Time |
| <i>HAB</i> | <i>Brooks</i> | 08/11/2022 08:03 |
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| SmarTroll ID | 7586-41446-5-5 | All pH requirements have been met <input checked="" type="checkbox"/> |
| Turbidity ID | 4677-23343-4-2 | |
| Sample Event | 1377 | |
| | | |
| Cooler Temp | 1.5°C | |
| Thermometer ID | 7044-38282-2-2 | |
| pH Strip ID | 10275-59506-10-2 | |

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets.
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|--------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Dallas Gentry | | Requested By: Greg Dyer |
| | | Location | Gorgas Ash Pond |

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|---------|---|------------------|--------|---|----------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | Hg | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
| | 2 | Dissolved Metals | 500 mL | 4 | Nitrate/Nitrite; TOC | 250 mL | 6 | Anions | 250 mL | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-----------------|------------|---------|
| MW-17 | 08/08/2022 | 14:40 | 6 | Groundwater | | BC14939 |
| MW-17V | 08/09/2022 | 08:42 | 6 | Groundwater | | BC14940 |
| MW-21V | 08/09/2022 | 12:55 | 6 | Groundwater | | BC14941 |
| EB-1 | 08/09/2022 | 13:50 | 5 | Equipment Blank | | BC14942 |
| MW-21 | 08/10/2022 | 08:54 | 6 | Groundwater | | BC14943 |
| MW-38H | 08/10/2022 | 12:48 | 6 | Groundwater | | BC14944 |
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| Relinquished By | Received By | Date/Time |
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| <i>M. Dyer</i> | <i>[Signature]</i> | 08/11/2022 08:03 |
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| SmarTroll ID | 7586-41444-5-3 | All pH requirements have been met <input checked="" type="checkbox"/> | |
| Turbidity ID | 3901-20010-2-2 | | |
| Sample Event | 1377 | | |
| | | | |
| | | Cooler Temp | 1.2°C |
| | | Thermometer ID | 7044-38282-2-2 |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

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|-------------------------|-----------|------------|--------------------------|--------------|-----------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer | | |
| | Collector | | TJ Daugherty | Requested By | Greg Dyer |
| | | | | | Location |

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|---------|---|--------|-----|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
| | 2 | N/A | N/A | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-------------|------------|---------|
| MW-09R | 07/19/2022 | 14:15 | 1 | Groundwater | | BC13427 |
| MW-9V | 07/19/2022 | 16:00 | 1 | Groundwater | | BC13428 |
| MW-03V | 07/20/2022 | 10:05 | 1 | Groundwater | | BC13429 |
| MW-3 | 07/20/2022 | 11:45 | 1 | Groundwater | | BC13430 |
| FB-2 | 07/20/2022 | 12:30 | 1 | Field Blank | | BC13431 |
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| Relinquished By | Received By | Date/Time |
| | | 07/20/2022 15:10 |
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| SmarTroll ID | 7586-41446-5-5 | All pH requirements have been met <input checked="" type="checkbox"/> |
| Turbidity ID | 4677-23342-4-1 | |
| Sample Event | 1377 | |
| | | |
| Cooler Temp | N/A | |
| Thermometer ID | N/A | |
| pH Strip ID | 10275-59506-10-2 | |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|--------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Dallas Gentry | | Requested By: Greg Dyer |
| | | Location | Gorgas Ash Pond |

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|---------|---|--------|-----|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
| | 2 | N/A | N/A | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-2 | 07/19/2022 | 09:41 | 1 | Groundwater | | BC13432 |
| MW-12 | 07/19/2022 | 12:31 | 1 | Groundwater | | BC13433 |
| MW-11R | 07/19/2022 | 14:42 | 1 | Groundwater | | BC13434 |
| MW-11R dup | 07/19/2022 | 14:42 | 1 | Sample Duplicate | | BC13435 |
| FB-1 | 07/19/2022 | 15:25 | 1 | Field Blank | | BC13436 |
| MW-12V | 07/20/2022 | 10:27 | 1 | Groundwater | | BC13437 |
| MW-13R | 07/20/2022 | 13:16 | 1 | Groundwater | | BC13438 |
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| Relinquished By | Received By | Date/Time |
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| <i>M. Gentry</i> | <i>Greg Dyer</i> | 07/21/2022 07:14 |
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| SmarTroll ID | 7586-41444-5-3 | All pH requirements have been met <input checked="" type="checkbox"/> | |
| Turbidity ID | 3901-20010-2-2 | | |
| Sample Event | 1377 | | |
| | | | |
| | | Cooler Temp | N/A |
| | | Thermometer ID | N/A |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|----------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Anthony Goggins | | Requested By |
| | | Location | Gorgas Ash Pond |

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|---------|---|--------|-----|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
| | 2 | N/A | N/A | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-------------|------------|---------|
| MW-36H | 07/20/2022 | 12:50 | 1 | Groundwater | | BC13439 |
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| Relinquished By <i>Anthony Goggins</i> | Received By <i>Greg Dyer</i> | Date/Time 07/21/2022 07:30 |
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|----------------|------------------|---|
| SmarTroll ID | 7586-41442-5-1 | All pH requirements have been met <input checked="" type="checkbox"/> |
| Turbidity ID | 4677-23343-4-2 | |
| Sample Event | 1377 | |
| Cooler Temp | N/A | |
| Thermometer ID | N/A | |
| pH Strip ID | 10275-59506-10-2 | |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|--------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Dallas Gentry | | Requested By |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | |
|---------|----------|-----|-------|-----|-------|-----|-------|-----|
| Bottles | 1 Radium | 1 L | 3 N/A | N/A | 5 N/A | N/A | 7 N/A | N/A |
| | 2 N/A | N/A | 4 N/A | N/A | 6 N/A | N/A | 8 N/A | N/A |

Comments: Radium MS/MSD collected at MW-28H

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-7 | 07/25/2022 | 12:05 | 1 | Groundwater | | BC14045 |
| MW-7 DIS | 07/25/2022 | 12:05 | 1 | Field Filtered | | BC14046 |
| PZ-16 | 07/26/2022 | 10:58 | 1 | Groundwater | | BC14047 |
| MW-37HR | 07/26/2022 | 14:03 | 1 | Groundwater | | BC14048 |
| MW-47 | 07/26/2022 | 16:01 | 1 | Groundwater | | BC14049 |
| FB-3 | 07/26/2022 | 16:30 | 1 | Field Blank | | BC14050 |
| MW-36V | 07/27/2022 | 09:42 | 1 | Groundwater | | BC14051 |
| MW-27HR | 07/27/2022 | 11:27 | 1 | Groundwater | | BC14052 |
| MW-28H | 07/27/2022 | 13:03 | 3 | Groundwater | | BC14053 |
| PZ-18R | 07/27/2022 | 14:35 | 1 | Groundwater | | BC14054 |
| PZ-18R dup | 07/27/2022 | 14:35 | 1 | Sample Duplicate | | BC14055 |
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| Relinquished By | Received By | Date/Time |
| <i>M. Dyer</i> | <i>Greg Dyer</i> | 07/28/2022 07:38 |
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|--------------|----------------|---|------------------|
| SmarTroll ID | 7586-41444-5-3 | All pH requirements have been met <input checked="" type="checkbox"/> | |
| Turbidity ID | 3901-20010-2-2 | | |
| Sample Event | 1377 | | |
| | | | |
| | | Cooler Temp | N/A |
| | | Thermometer ID | N/A |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|-----------------|--------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| Collector | Anthony Goggins | Requested By | Greg Dyer |
| | | Location | Gorgas Ash Pond |

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|---------|---|--------|-----|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
| | 2 | N/A | N/A | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-------------|------------|---------|
| MW-32H | 07/27/2022 | 12:42 | 1 | Groundwater | | BC14056 |
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| Relinquished By | Received By | Date/Time |
| <i>Anthony Goggins</i> | <i>Greg Dyer</i> | 07/28/2022 07:43 |
| | | |
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|----------------|------------------|---|
| SmarTroll ID | 7586-41442-5-1 | All pH requirements have been met <input checked="" type="checkbox"/> |
| Turbidity ID | 9881-57211-3-1 | |
| Sample Event | 1377 | |
| Cooler Temp | N/A | |
| Thermometer ID | N/A | |
| pH Strip ID | 10275-59506-10-2 | |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab


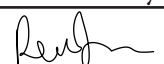
Lab ETA

| | | | | | | |
|-------------------------|-------------------------|--|------------|--------------------------|-----------|-----------------|
| Requested Complete Date | Routine | | Results To | Dustin Brooks, Greg Dyer | | |
| | Collector: TJ Daugherty | | | Requested By | Greg Dyer | |
| | | | | | Location | Gorgas Ash Pond |

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|---------|---|--------|-----|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
| | 2 | N/A | N/A | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments: Rad MS/MSD collected @ MW-23H

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-6D | 07/25/2022 | 11:40 | 1 | Groundwater | | BC14057 |
| MW-6V | 07/25/2022 | 17:55 | 1 | Groundwater | | BC14058 |
| MW-6V DIS | 07/25/2022 | 17:55 | 1 | Field Filtered | | BC14059 |
| MW-6S | 07/26/2022 | 10:00 | 1 | Groundwater | | BC14060 |
| MW-6S Dup | 07/26/2022 | 10:00 | 1 | Sample Duplicate | | BC14061 |
| MW-23H | 07/26/2022 | 11:30 | 3 | Groundwater | | BC14062 |
| MW-23V | 07/26/2022 | 12:44 | 1 | Groundwater | | BC14063 |
| MW-41HS | 07/26/2022 | 14:15 | 1 | Groundwater | | BC14064 |
| MW-24H | 07/27/2022 | 10:10 | 1 | Groundwater | | BC14065 |
| MW-24H Dup | 07/27/2022 | 10:10 | 1 | Sample Duplicate | | BC14066 |
| MW-41HD | 07/27/2022 | 11:45 | 1 | Groundwater | | BC14067 |
| FB-4 | 07/27/2022 | 12:30 | 1 | Field Blank | | BC14068 |
| MW-42H | 07/27/2022 | 14:07 | 1 | Groundwater | | BC14069 |
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| Relinquished By | Received By | Date/Time |
|  |  | 07/28/2022 07:53 |
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|--------------|----------------|---|------------------|
| SmarTroll ID | 7586-41446-5-5 | All pH requirements have been met <input checked="" type="checkbox"/> | |
| Turbidity ID | 4677-23343-4-2 | | |
| Sample Event | 1377 | | |
| | | | |
| | | Cooler Temp | N/A |
| | | Thermometer ID | N/A |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|--------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Dallas Gentry | | Requested By: Greg Dyer |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | |
|---------|----------|-----|-------|-----|-------|-----|-------|-----|
| Bottles | 1 Radium | 1 L | 3 N/A | N/A | 5 N/A | N/A | 7 N/A | N/A |
| | 2 N/A | N/A | 4 N/A | N/A | 6 N/A | N/A | 8 N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-------------|------------|---------|
| MW-16D | 08/02/2022 | 09:48 | 1 | Groundwater | | BC14541 |
| MW-16S | 08/02/2022 | 10:57 | 1 | Groundwater | | BC14542 |
| MW-15 | 08/02/2022 | 12:41 | 1 | Groundwater | | BC14543 |
| MW-15V | 08/02/2022 | 14:22 | 1 | Groundwater | | BC14544 |
| MW-14R | 08/03/2022 | 08:35 | 1 | Groundwater | | BC14545 |
| MW-25HA | 08/03/2022 | 10:18 | 1 | Groundwater | | BC14546 |
| MW-10R | 08/03/2022 | 13:15 | 1 | Groundwater | | BC14547 |
| MW-30HA | 08/03/2022 | 15:17 | 1 | Groundwater | | BC14548 |
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| Relinquished By | Received By | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 08/04/2022 07:21 |
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|--------------|----------------|-----------------------------------|-------------------------------------|
| SmarTroll ID | 7586-41444-5-3 | All pH requirements have been met | <input checked="" type="checkbox"/> |
| Turbidity ID | 3901-20010-2-2 | Cooler Temp | N/A |
| Sample Event | 1377 | Thermometer ID | N/A |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | | | | |
|-------------------------|----------------------------|--|------------|--------------------------|---------------------------|--|
| Requested Complete Date | Routine | | Results To | Dustin Brooks, Greg Dyer | | |
| | Collector: Anthony Goggins | | | Requested By | Greg Dyer | |
| | | | | | Location: Gorgas Ash Pond | |

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|---------|---|--------|-----|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
| | 2 | N/A | N/A | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments: MS/MSD collected @ MW-01R

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|-----------|------------|-------|--------------|------------------|------------|---------|
| MW-46 | 08/02/2022 | 11:10 | 1 | Groundwater | | BC14549 |
| MW-46 DUP | 08/02/2022 | 11:10 | 1 | Sample Duplicate | | BC14550 |
| MW-01R | 08/02/2022 | 14:17 | 3 | Groundwater | | BC14551 |
| MW-31H | 08/03/2022 | 09:35 | 1 | Groundwater | | BC14552 |
| MW-31V | 08/03/2022 | 11:47 | 1 | Groundwater | | BC14553 |
| MW-43H | 08/03/2022 | 13:05 | 1 | Groundwater | | BC14554 |
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| Relinquished By | Received By | Date/Time |
| | | 08/04/2022 07:29 |
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| SmarTroll ID | 7586-41442-5-1 | All pH requirements have been met | <input checked="" type="checkbox"/> |
| Turbidity ID | 9881-57211-3-1 | Cooler Temp | N/A |
| Sample Event | 1377 | Thermometer ID | N/A |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|--------------|--------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| Collector | TJ Daugherty | Requested By | Greg Dyer |
| | | Location | Gorgas Ash Pond |

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|---------|---|--------|-----|---|-----|-----|---|-----|-----|---|-----|-----|
| Bottles | 1 | Radium | 1 L | 3 | N/A | N/A | 5 | N/A | N/A | 7 | N/A | N/A |
| | 2 | N/A | N/A | 4 | N/A | N/A | 6 | N/A | N/A | 8 | N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|------------|------------|-------|--------------|------------------|------------|---------|
| MW-8 | 08/02/2022 | 10:10 | 1 | Groundwater | | BC14555 |
| MW-40H | 08/02/2022 | 12:40 | 1 | Groundwater | | BC14556 |
| MW-05R | 08/02/2022 | 15:40 | 1 | Groundwater | | BC14557 |
| MW-18R | 08/03/2022 | 10:08 | 1 | Groundwater | | BC14558 |
| MW-18R Dup | 08/03/2022 | 10:08 | 1 | Sample Duplicate | | BC14559 |
| MW-29H | 08/03/2022 | 12:03 | 1 | Groundwater | | BC14560 |
| MW-19 | 08/03/2022 | 13:50 | 1 | Groundwater | | BC14561 |
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| | | 08/04/2022 08:19 |
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| SmarTroll ID | 7586-41446-5-5 | All pH requirements have been met | <input checked="" type="checkbox"/> |
| Turbidity ID | 4677-23343-4-2 | Cooler Temp | N/A |
| Sample Event | 1377 | Thermometer ID | N/A |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|--------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Dallas Gentry | | Requested By |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | |
|---------|----------|-----|-------|-----|-------|-----|-------|-----|
| Bottles | 1 Radium | 1 L | 3 N/A | N/A | 5 N/A | N/A | 7 N/A | N/A |
| | 2 N/A | N/A | 4 N/A | N/A | 6 N/A | N/A | 8 N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-----------------|------------|---------|
| MW-17 | 08/08/2022 | 14:40 | 1 | Groundwater | | BC14951 |
| MW-17V | 08/09/2022 | 08:42 | 1 | Groundwater | | BC14952 |
| MW-21V | 08/09/2022 | 12:55 | 1 | Groundwater | | BC14953 |
| EB-1 | 08/09/2022 | 13:50 | 1 | Equipment Blank | | BC14954 |
| MW-21 | 08/10/2022 | 08:54 | 1 | Groundwater | | BC14955 |
| MW-38H | 08/10/2022 | 12:48 | 1 | Groundwater | | BC14956 |
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| Relinquished By | Received By | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 08/11/2022 08:04 |
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|--------------|----------------|-----------------------------------|-------------------------------------|
| SmarTroll ID | 7586-41444-5-3 | All pH requirements have been met | <input checked="" type="checkbox"/> |
| Turbidity ID | 3901-20010-2-2 | Cooler Temp | N/A |
| Sample Event | 1377 | Thermometer ID | N/A |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | | |
|-------------------------|-------------------------|------------|--------------------------|-----------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer | |
| | Collector: TJ Daugherty | | Requested By | Greg Dyer |
| | | Location | Gorgas Ash Pond | |

| Bottles | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------|--------|-----|-----|-----|-----|-----|-----|-----|
| | Radium | 1 L | N/A | N/A | N/A | N/A | N/A | N/A |
| | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Comments: Rad MS/MSD @ PZ-22

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|-------------|------------|---------|
| MW-45V | 08/08/2022 | 15:15 | 1 | Groundwater | | BC14957 |
| FB-5 | 08/08/2022 | 16:00 | 1 | Field Blank | | BC14958 |
| MW-18VR | 08/09/2022 | 10:32 | 1 | Groundwater | | BC14959 |
| PZ-22 | 08/09/2022 | 12:22 | 3 | Groundwater | | BC14960 |
| MW-26H | 08/10/2022 | 10:53 | 1 | Groundwater | | BC14961 |
| FB-6 | 08/10/2022 | 11:30 | 1 | Field Blank | | BC14962 |
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| Relinquished By | Received By | Date/Time |
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| | | 08/11/2022 08:03 |
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|--------------|----------------|---|------------------|
| SmarTroll ID | 7586-41446-5-5 | All pH requirements have been met <input checked="" type="checkbox"/> | |
| Turbidity ID | 4677-23343-4-2 | Cooler Temp | N/A |
| Sample Event | 1377 | Thermometer ID | N/A |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

September 23, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGORAP_1377
Pace Project No.: 30515389

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on August 18, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

(Greensburg, PA) - Revision 1 - This report replaces the 9/21/22 report. This project was revised on 9/23/22 in order to include quality sheets and revise sample times per client request..

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGORAP_1377
Pace Project No.: 30515389

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: WMWGORAP_1377

Pace Project No.: 30515389

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 30515389001 | BC13427 MW-09R | Water | 07/19/22 14:15 | 08/18/22 09:40 |
| 30515389002 | BC13428 MW-9V | Water | 07/19/22 16:00 | 08/18/22 09:40 |
| 30515389003 | BC13429 MW-03V | Water | 07/20/22 10:05 | 08/18/22 09:40 |
| 30515389004 | BC13430 MW-3 | Water | 07/20/22 11:45 | 08/18/22 09:40 |
| 30515389005 | BC13431 FB-2 | Water | 07/20/22 12:30 | 08/18/22 09:40 |
| 30515389006 | BC13432 MW-2 | Water | 07/19/22 09:41 | 08/18/22 09:40 |
| 30515389007 | BC13433 MW-12 | Water | 07/19/22 12:31 | 08/18/22 09:40 |
| 30515389008 | BC13434 MW-11R | Water | 07/19/22 14:42 | 08/18/22 09:40 |
| 30515389009 | BC13435 MW-11R DUP | Water | 07/19/22 14:42 | 08/18/22 09:40 |
| 30515389010 | BC13436 FB-1 | Water | 07/19/22 15:25 | 08/18/22 09:40 |
| 30515389011 | BC13437 MW-12V | Water | 07/20/22 10:27 | 08/18/22 09:40 |
| 30515389012 | BC13438 MW-13R | Water | 07/20/22 13:16 | 08/18/22 09:40 |
| 30515389013 | BC13439 MW-36H | Water | 07/20/22 12:50 | 08/18/22 09:40 |
| 30515389014 | BC14045 MW-7 | Water | 07/25/22 12:05 | 08/18/22 09:40 |
| 30515389015 | BC14046 MW-7 DIS | Water | 07/25/22 12:05 | 08/18/22 09:40 |
| 30515389016 | BC14047 PZ-16 | Water | 07/26/22 10:58 | 08/18/22 09:40 |
| 30515389017 | BC14048 MW-37HR | Water | 07/26/22 14:03 | 08/18/22 09:40 |
| 30515389018 | BC14049 MW-47 | Water | 07/26/22 16:01 | 08/18/22 09:40 |
| 30515389019 | BC14050 FB-3 | Water | 07/26/22 16:30 | 08/18/22 09:40 |
| 30515389020 | BC14051 MW-36V | Water | 07/27/22 09:42 | 08/18/22 09:40 |
| 30515389021 | BC14052 MW-27HR | Water | 07/27/22 11:27 | 08/18/22 09:40 |
| 30515389022 | BC14053 MW-28H | Water | 07/27/22 13:03 | 08/18/22 09:40 |
| 30515389023 | BC14053 MW-28H MS | Water | 07/27/22 13:03 | 08/18/22 09:40 |
| 30515389024 | BC14053 MW-28H MSD | Water | 07/27/22 13:03 | 08/18/22 09:40 |
| 30515389025 | BC14054 PZ-18R | Water | 07/27/22 14:35 | 08/18/22 09:40 |
| 30515389026 | BC14055 PZ-18R DUP | Water | 07/27/22 14:35 | 08/18/22 09:40 |
| 30515389027 | BC14056 MW-32H | Water | 07/27/22 12:42 | 08/18/22 09:40 |
| 30515389028 | BC14057 MW-6D | Water | 07/25/22 11:40 | 08/18/22 09:40 |
| 30515389029 | BC14058 MW-6V | Water | 07/25/22 17:55 | 08/18/22 09:40 |
| 30515389030 | BC14059 MW-6V DIS | Water | 07/25/22 17:55 | 08/18/22 09:40 |
| 30515389031 | BC14060 MW-6S | Water | 07/26/22 10:00 | 08/18/22 09:40 |
| 30515389032 | BC14061 MW-6S DUP | Water | 07/26/22 10:00 | 08/18/22 09:40 |
| 30515389033 | BC14062 MW-23H | Water | 07/26/22 11:30 | 08/18/22 09:40 |
| 30515389034 | BC14062 MW-23H MS | Water | 07/26/22 11:30 | 08/18/22 09:40 |
| 30515389035 | BC14062 MW-23H MSD | Water | 07/26/22 11:30 | 08/18/22 09:40 |
| 30515389036 | BC14063 MW-23V | Water | 07/26/22 12:44 | 08/18/22 09:40 |
| 30515389037 | BC14064 MW-41HS | Water | 07/26/22 14:15 | 08/18/22 09:40 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1377

Pace Project No.: 30515389

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 30515389038 | BC14065 MW-24H | Water | 07/27/22 10:10 | 08/18/22 09:40 |
| 30515389039 | BC14066 MW-24H DUP | Water | 07/27/22 10:10 | 08/18/22 09:40 |
| 30515389040 | BC14067 MW-41HD | Water | 07/27/22 11:45 | 08/18/22 09:40 |
| 30515389041 | BC14068 FB-4 | Water | 07/27/22 12:30 | 08/18/22 09:40 |
| 30515389042 | BC14069 MW-42H | Water | 07/27/22 14:07 | 08/18/22 09:40 |
| 30515389043 | BC14541 MW-16D | Water | 08/02/22 09:48 | 08/18/22 09:40 |
| 30515389044 | BC14542 MW-16S | Water | 08/02/22 10:57 | 08/18/22 09:40 |
| 30515389045 | BC14543 MW-15 | Water | 08/02/22 12:41 | 08/18/22 09:40 |
| 30515389046 | BC14544 MW-15V | Water | 08/02/22 14:22 | 08/18/22 09:40 |
| 30515389047 | BC14545 MW-14R | Water | 08/03/22 08:35 | 08/18/22 09:40 |
| 30515389048 | BC14546 MW-25HA | Water | 08/03/22 10:18 | 08/18/22 09:40 |
| 30515389049 | BC14547 MW-10R | Water | 08/03/22 13:15 | 08/18/22 09:40 |
| 30515389050 | BC14548 MW-30HA | Water | 08/03/22 15:17 | 08/18/22 09:40 |
| 30515389051 | BC14549 MW-46 | Water | 08/02/22 11:10 | 08/18/22 09:40 |
| 30515389052 | BC14550 MW-46 DUP | Water | 08/02/22 11:10 | 08/18/22 09:40 |
| 30515389053 | BC14551 MW-01R | Water | 08/02/22 14:17 | 08/18/22 09:40 |
| 30515389054 | BC14552 MW-31H | Water | 08/03/22 09:35 | 08/18/22 09:40 |
| 30515389055 | BC14553 MW-31V | Water | 08/03/22 11:47 | 08/18/22 09:40 |
| 30515389056 | BC14554 MW-43H | Water | 08/03/22 13:05 | 08/18/22 09:40 |
| 30515389057 | BC14555 MW-8 | Water | 08/02/22 10:10 | 08/18/22 09:40 |
| 30515389058 | BC14556 MW-40H | Water | 08/02/22 12:40 | 08/18/22 09:40 |
| 30515389059 | BC14557 MW-05R | Water | 08/02/22 15:40 | 08/18/22 09:40 |
| 30515389060 | BC14558 MW-18R | Water | 08/03/22 10:08 | 08/18/22 09:40 |
| 30515389061 | BC14559 MW-18R DUP | Water | 08/03/22 10:08 | 08/18/22 09:40 |
| 30515389062 | BC14560 MW-29H | Water | 08/03/22 12:03 | 08/18/22 09:40 |
| 30515389063 | BC14561 MW-19 | Water | 08/03/22 13:50 | 08/18/22 09:40 |
| 30515389064 | BC14951 MW-17 | Water | 08/08/22 14:40 | 08/18/22 09:40 |
| 30515389065 | BC14952 MW-17V | Water | 08/09/22 08:42 | 08/18/22 09:40 |
| 30515389066 | BC14953 MW-21V | Water | 08/09/22 12:55 | 08/18/22 09:40 |
| 30515389067 | BC14954 EB-1 | Water | 08/09/22 13:50 | 08/18/22 09:40 |
| 30515389068 | BC14955 MW-21 | Water | 08/10/22 08:54 | 08/18/22 09:40 |
| 30515389069 | BC14956 MW-38H | Water | 08/10/22 12:48 | 08/18/22 09:40 |
| 30515389070 | BC14957 MW-45V | Water | 08/08/22 15:15 | 08/18/22 09:40 |
| 30515389071 | BC14958 FB-5 | Water | 08/08/22 16:00 | 08/18/22 09:40 |
| 30515389072 | BC14959 MW-18VR | Water | 08/09/22 10:32 | 08/18/22 09:40 |
| 30515389073 | BC14960 PZ-22 | Water | 08/09/22 12:22 | 08/18/22 09:40 |
| 30515389074 | BC14960 PZ-22 MS | Water | 08/09/22 12:22 | 08/18/22 09:40 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1377

Pace Project No.: 30515389

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-------------------|--------|----------------|----------------|
| 30515389075 | BC14960 PZ-22 MSD | Water | 08/09/22 12:22 | 08/18/22 09:40 |
| 30515389076 | BC14961 MW-26H | Water | 08/10/22 10:53 | 08/18/22 09:40 |
| 30515389077 | BC14962 FB-6 | Water | 08/10/22 11:30 | 08/18/22 09:40 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1377
Pace Project No.: 30515389

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|-------------------|------------|
| 30515389001 | BC13427 MW-09R | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389002 | BC13428 MW-9V | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389003 | BC13429 MW-03V | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389004 | BC13430 MW-3 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389005 | BC13431 FB-2 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389006 | BC13432 MW-2 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389007 | BC13433 MW-12 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389008 | BC13434 MW-11R | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389009 | BC13435 MW-11R DUP | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389010 | BC13436 FB-1 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389011 | BC13437 MW-12V | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389012 | BC13438 MW-13R | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389013 | BC13439 MW-36H | EPA 9315 | RMS | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1377
Pace Project No.: 30515389

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|-------------------|------------|
| 30515389014 | BC14045 MW-7 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389015 | BC14046 MW-7 DIS | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389016 | BC14047 PZ-16 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389017 | BC14048 MW-37HR | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389018 | BC14049 MW-47 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389019 | BC14050 FB-3 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389020 | BC14051 MW-36V | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389021 | BC14052 MW-27HR | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389022 | BC14053 MW-28H | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389023 | BC14053 MW-28H MS | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389024 | BC14053 MW-28H MSD | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389025 | BC14054 PZ-18R | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389026 | BC14055 PZ-18R DUP | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1377
Pace Project No.: 30515389

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|-------------------|------------|
| 30515389027 | BC14056 MW-32H | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389028 | BC14057 MW-6D | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389029 | BC14058 MW-6V | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389030 | BC14059 MW-6V DIS | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389031 | BC14060 MW-6S | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389032 | BC14061 MW-6S DUP | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389033 | BC14062 MW-23H | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389034 | BC14062 MW-23H MS | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389035 | BC14062 MW-23H MSD | EPA 9320 | VAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389036 | BC14063 MW-23V | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389037 | BC14064 MW-41HS | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 30515389038 | BC14065 MW-24H | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389039 | BC14066 MW-24H DUP | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1377
Pace Project No.: 30515389

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------------|--------------------------|----------|-------------------|------------|
| 30515389040 | BC14067 MW-41HD | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389041 | BC14068 FB-4 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389042 | BC14069 MW-42H | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389043 | BC14541 MW-16D | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389044 | BC14542 MW-16S | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389045 | BC14543 MW-15 | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389046 | BC14544 MW-15V | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389047 | BC14545 MW-14R | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389048 | BC14546 MW-25HA | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389049 | BC14547 MW-10R | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389050 | BC14548 MW-30HA | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 30515389051 | BC14549 MW-46 | EPA 9320 | VAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1377
Pace Project No.: 30515389

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|-------------------|------------|
| 30515389052 | BC14550 MW-46 DUP | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389053 | BC14551 MW-01R | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389054 | BC14552 MW-31H | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389055 | BC14553 MW-31V | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389056 | BC14554 MW-43H | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389057 | BC14555 MW-8 | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389058 | BC14556 MW-40H | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389059 | BC14557 MW-05R | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389060 | BC14558 MW-18R | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389061 | BC14559 MW-18R DUP | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389062 | BC14560 MW-29H | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389063 | BC14561 MW-19 | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1377
Pace Project No.: 30515389

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------------|--------------------------|----------|-------------------|------------|
| 30515389064 | BC14951 MW-17 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30515389065 | BC14952 MW-17V | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30515389066 | BC14953 MW-21V | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30515389067 | BC14954 EB-1 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30515389068 | BC14955 MW-21 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30515389069 | BC14956 MW-38H | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30515389070 | BC14957 MW-45V | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30515389071 | BC14958 FB-5 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30515389072 | BC14959 MW-18VR | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30515389073 | BC14960 PZ-22 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30515389074 | BC14960 PZ-22 MS | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389075 | BC14960 PZ-22 MSD | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30515389076 | BC14961 MW-26H | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1377
Pace Project No.: 30515389

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------|--------------------------|----------|-------------------|------------|
| 30515389077 | BC14962 FB-6 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: WMWGORAP_1377

Pace Project No.: 30515389

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: September 23, 2022

General Information:

77 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1377

Pace Project No.: 30515389

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: September 23, 2022

General Information:

77 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: WMWGORAP_1377

Pace Project No.: 30515389

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: September 23, 2022

General Information:

71 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13427 MW-09R **Lab ID: 30515389001** Collected: 07/19/22 14:15 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.219U ± 0.210 (0.398) C:91% T:NA | pCi/L | 09/15/22 09:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.584U ± 0.342 (0.626) C:79% T:94% | pCi/L | 09/06/22 11:56 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.803U ± 0.552 (1.02) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13428 MW-9V **Lab ID: 30515389002** Collected: 07/19/22 16:00 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.112U ± 0.159 (0.338) C:96% T:NA | pCi/L | 09/15/22 09:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.915 ± 0.410 (0.668) C:70% T:96% | pCi/L | 09/06/22 11:56 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.03 ± 0.569 (1.01) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13429 MW-03V **Lab ID: 30515389003** Collected: 07/20/22 10:05 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.215U ± 0.184 (0.328) C:97% T:NA | pCi/L | 09/15/22 09:15 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.547U ± 0.336 (0.612) C:79% T:91% | pCi/L | 09/06/22 11:56 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.762U ± 0.520 (0.940) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13430 MW-3 **Lab ID: 30515389004** Collected: 07/20/22 11:45 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.202U ± 0.193 (0.352) C:93% T:NA | pCi/L | 09/15/22 09:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.271U ± 0.301 (0.629) C:80% T:98% | pCi/L | 09/06/22 11:56 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.473U ± 0.494 (0.981) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13431 FB-2 **Lab ID: 30515389005** Collected: 07/20/22 12:30 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.118U ± 0.154 (0.322) C:97% T:NA | pCi/L | 09/15/22 09:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.502U ± 0.328 (0.614) C:79% T:91% | pCi/L | 09/06/22 11:56 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.620U ± 0.482 (0.936) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13432 MW-2 **Lab ID: 30515389006** Collected: 07/19/22 09:41 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.0220U ± 0.142 (0.405) C:93% T:NA | pCi/L | 09/15/22 09:15 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.306U ± 0.369 (0.778) C:68% T:88% | pCi/L | 09/06/22 11:56 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.306U ± 0.511 (1.18) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13433 MW-12 **Lab ID: 30515389007** Collected: 07/19/22 12:31 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.345U ± 0.238 (0.392) C:98% T:NA | pCi/L | 09/15/22 09:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.589U ± 0.359 (0.657) C:76% T:86% | pCi/L | 09/06/22 11:56 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.934U ± 0.597 (1.05) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13434 MW-11R **Lab ID: 30515389008** Collected: 07/19/22 14:42 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.414 ± 0.244 (0.350) C:93% T:NA | pCi/L | 09/15/22 09:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.172U ± 0.336 (0.740) C:72% T:86% | pCi/L | 09/06/22 11:56 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.586U ± 0.580 (1.09) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13435 MW-11R DUP **Lab ID: 30515389009** Collected: 07/19/22 14:42 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.493 ± 0.282 (0.428) C:94% T:NA | pCi/L | 09/15/22 08:27 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.798 ± 0.395 (0.676) C:76% T:90% | pCi/L | 09/06/22 11:56 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.29 ± 0.677 (1.10) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13436 FB-1 **Lab ID: 30515389010** Collected: 07/19/22 15:25 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0881U ± 0.152 (0.341) C:94% T:NA | pCi/L | 09/15/22 08:27 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.235U ± 0.358 (0.774) C:70% T:84% | pCi/L | 09/06/22 11:57 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.323U ± 0.510 (1.12) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13437 MW-12V **Lab ID: 30515389011** Collected: 07/20/22 10:27 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.307U ± 0.209 (0.318) C:98% T:NA | pCi/L | 09/15/22 08:27 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.289U ± 0.329 (0.691) C:74% T:91% | pCi/L | 09/06/22 11:57 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.596U ± 0.538 (1.01) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13438 MW-13R **Lab ID: 30515389012** Collected: 07/20/22 13:16 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.226U ± 0.198 (0.355) C:91% T:NA | pCi/L | 09/15/22 08:27 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.325U ± 0.295 (0.594) C:74% T:94% | pCi/L | 09/06/22 11:57 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.551U ± 0.493 (0.949) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC13439 MW-36H **Lab ID: 30515389013** Collected: 07/20/22 12:50 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.320U ± 0.328 (0.655) C:97% T:NA | pCi/L | 09/15/22 08:28 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.153U ± 0.258 (0.563) C:76% T:91% | pCi/L | 09/06/22 11:57 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.473U ± 0.586 (1.22) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14045 MW-7 **Lab ID: 30515389014** Collected: 07/25/22 12:05 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.101U ± 0.170 (0.381) C:87% T:NA | pCi/L | 09/15/22 08:28 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.354U ± 0.313 (0.625) C:72% T:90% | pCi/L | 09/06/22 11:57 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.455U ± 0.483 (1.01) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14046 MW-7 DIS **Lab ID: 30515389015** Collected: 07/25/22 12:05 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.158U ± 0.172 (0.333) C:94% T:NA | pCi/L | 09/15/22 08:28 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.541 ± 0.276 (0.478) C:103% T:91% | pCi/L | 09/06/22 11:57 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.699U ± 0.448 (0.811) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14047 PZ-16 **Lab ID: 30515389016** Collected: 07/26/22 10:58 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.461 ± 0.271 (0.389) C:83% T:NA | pCi/L | 09/15/22 08:28 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.664 ± 0.359 (0.624) C:74% T:88% | pCi/L | 09/06/22 11:57 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.13 ± 0.630 (1.01) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14048 MW-37HR **Lab ID: 30515389017** Collected: 07/26/22 14:03 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.151U ± 0.187 (0.388) C:94% T:NA | pCi/L | 09/15/22 08:28 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.349U ± 0.280 (0.557) C:103% T:85% | pCi/L | 09/06/22 11:57 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.500U ± 0.467 (0.945) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14049 MW-47 **Lab ID: 30515389018** Collected: 07/26/22 16:01 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.115U ± 0.146 (0.297) C:101% T:NA | pCi/L | 09/15/22 08:28 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.326U ± 0.305 (0.616) C:79% T:84% | pCi/L | 09/13/22 11:40 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.441U ± 0.451 (0.913) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14050 FB-3 **Lab ID: 30515389019** Collected: 07/26/22 16:30 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.0475U ± 0.196 (0.603) C:97% T:NA | pCi/L | 09/15/22 08:28 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.612U ± 0.379 (0.694) C:76% T:85% | pCi/L | 09/13/22 11:52 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.612U ± 0.575 (1.30) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14051 MW-36V **Lab ID: 30515389020** Collected: 07/27/22 09:42 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.202U ± 0.186 (0.332) C:95% T:NA | pCi/L | 09/15/22 08:29 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.655U ± 0.393 (0.717) C:75% T:89% | pCi/L | 09/13/22 11:53 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.857U ± 0.579 (1.05) | pCi/L | 09/15/22 16:34 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14052 MW-27HR **Lab ID: 30515389021** Collected: 07/27/22 11:27 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.171U ± 0.204 (0.412) C:90% T:NA | pCi/L | 09/15/22 08:30 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 1.46 ± 0.516 (0.730) C:70% T:92% | pCi/L | 09/13/22 11:53 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.63 ± 0.720 (1.14) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14053 MW-28H **Lab ID: 30515389022** Collected: 07/27/22 13:03 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.0279U ± 0.221 (0.658) C:94% T:NA | pCi/L | 09/15/22 08:30 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.742 ± 0.371 (0.635) C:76% T:89% | pCi/L | 09/13/22 11:41 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.742U ± 0.592 (1.29) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14053 MW-28H MS **Lab ID: 30515389023** Collected: 07/27/22 13:03 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 107.13 %REC ± NA (NA) C:NA T:NA | pCi/L | 09/15/22 08:30 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 79.64 %REC ± NA (NA) C:NA T:NA | pCi/L | 09/13/22 11:53 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14053 MW-28H MSD **Lab ID: 30515389024** Collected: 07/27/22 13:03 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 96.89 %REC 10.04RPD ± NA (NA) C:NA T:NA | pCi/L | 09/15/22 08:30 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 85.39 %REC 6.97 RPD ± NA (NA) C:NA T:NA | pCi/L | 09/13/22 11:54 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14054 PZ-18R **Lab ID: 30515389025** Collected: 07/27/22 14:35 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.140U ± 0.179 (0.372) C:91% T:NA | pCi/L | 09/15/22 08:30 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | -0.0914U ± 0.303 (0.732) C:75% T:84% | pCi/L | 09/13/22 11:40 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.140U ± 0.482 (1.10) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14055 PZ-18R DUP **Lab ID: 30515389026** Collected: 07/27/22 14:35 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0805U ± 0.197 (0.468) C:93% T:NA | pCi/L | 09/15/22 08:31 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.522U ± 0.383 (0.750) C:76% T:90% | pCi/L | 09/13/22 11:54 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.603U ± 0.580 (1.22) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14056 MW-32H **Lab ID: 30515389027** Collected: 07/27/22 12:42 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.177U ± 0.194 (0.368) C:92% T:NA | pCi/L | 09/15/22 08:14 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.817 ± 0.430 (0.763) C:74% T:87% | pCi/L | 09/13/22 11:53 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.994U ± 0.624 (1.13) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14057 MW-6D **Lab ID: 30515389028** Collected: 07/25/22 11:40 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.289U ± 0.225 (0.375) C:94% T:NA | pCi/L | 09/15/22 08:14 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.224U ± 0.302 (0.644) C:74% T:91% | pCi/L | 09/13/22 11:41 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.513U ± 0.527 (1.02) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14058 MW-6V **Lab ID: 30515389029** Collected: 07/25/22 17:55 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.214U ± 0.173 (0.284) C:98% T:NA | pCi/L | 09/15/22 08:14 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.322U ± 0.353 (0.735) C:70% T:91% | pCi/L | 09/13/22 11:54 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.536U ± 0.526 (1.02) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14059 MW-6V DIS **Lab ID: 30515389030** Collected: 07/25/22 17:55 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.188U ± 0.169 (0.298) C:93% T:NA | pCi/L | 09/15/22 08:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.720 ± 0.360 (0.608) C:73% T:93% | pCi/L | 09/13/22 11:54 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.908 ± 0.529 (0.906) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14060 MW-6S **Lab ID: 30515389031** Collected: 07/26/22 10:00 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.496 ± 0.268 (0.318) C:92% T:NA | pCi/L | 09/15/22 08:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.678 ± 0.361 (0.621) C:73% T:86% | pCi/L | 09/13/22 11:41 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.17 ± 0.629 (0.939) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14061 MW-6S DUP **Lab ID: 30515389032** Collected: 07/26/22 10:00 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.172U ± 0.172 (0.318) C:90% T:NA | pCi/L | 09/15/22 08:15 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.678U ± 0.379 (0.679) C:73% T:92% | pCi/L | 09/13/22 11:55 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.850U ± 0.551 (0.997) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14062 MW-23H **Lab ID: 30515389033** Collected: 07/26/22 11:30 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.188U ± 0.206 (0.404) C:95% T:NA | pCi/L | 09/19/22 14:50 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0354U ± 0.300 (0.695) C:78% T:85% | pCi/L | 09/13/22 14:57 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.223U ± 0.506 (1.10) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14062 MW-23H MS **Lab ID: 30515389034** Collected: 07/26/22 11:30 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 99.66 %REC ± NA (NA) C:NA T:NA | pCi/L | 09/19/22 14:50 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 132.97 %REC ± NA (NA) C:NA T:NA | pCi/L | 09/13/22 14:57 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14062 MW-23H MSD **Lab ID: 30515389035** Collected: 07/26/22 11:30 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 98.02 %REC 1.65RPD ± NA (NA) C:NA T:NA | pCi/L | 09/19/22 14:50 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 108.83 %REC 19.97 RPD ± NA (NA) C:NA T:NA | pCi/L | 09/13/22 14:57 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14063 MW-23V **Lab ID: 30515389036** Collected: 07/26/22 12:44 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.272U ± 0.221 (0.385) C:92% T:NA | pCi/L | 09/15/22 08:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.331U ± 0.341 (0.700) C:65% T:88% | pCi/L | 09/13/22 11:41 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.603U ± 0.562 (1.09) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14064 MW-41HS **Lab ID: 30515389037** Collected: 07/26/22 14:15 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.309U ± 0.213 (0.330) C:94% T:NA | pCi/L | 09/15/22 08:31 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.419U ± 0.332 (0.655) C:75% T:93% | pCi/L | 09/13/22 11:41 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.728U ± 0.545 (0.985) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14065 MW-24H **Lab ID: 30515389038** Collected: 07/27/22 10:10 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.292U ± 0.231 (0.405) C:94% T:NA | pCi/L | 09/15/22 08:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.541U ± 0.371 (0.711) C:74% T:91% | pCi/L | 09/13/22 11:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.833U ± 0.602 (1.12) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14066 MW-24H DUP **Lab ID: 30515389039** Collected: 07/27/22 10:10 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.742 ± 0.316 (0.372) C:98% T:NA | pCi/L | 09/15/22 08:15 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.387U ± 0.314 (0.618) C:73% T:94% | pCi/L | 09/13/22 11:55 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.13 ± 0.630 (0.990) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14067 MW-41HD **Lab ID: 30515389040** Collected: 07/27/22 11:45 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.115U ± 0.140 (0.275) C:91% T:NA | pCi/L | 09/15/22 08:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.305U ± 0.336 (0.701) C:70% T:94% | pCi/L | 09/13/22 11:42 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.420U ± 0.476 (0.976) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14068 FB-4 **Lab ID: 30515389041** Collected: 07/27/22 12:30 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.00930U ± 0.172 (0.469) C:95% T:NA | pCi/L | 09/14/22 20:27 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 1.02 ± 0.418 (0.607) C:72% T:84% | pCi/L | 09/13/22 14:57 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.02U ± 0.590 (1.08) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14069 MW-42H **Lab ID: 30515389042** Collected: 07/27/22 14:07 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.110U ± 0.189 (0.426) C:92% T:NA | pCi/L | 09/14/22 20:28 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.953 ± 0.439 (0.716) C:71% T:87% | pCi/L | 09/13/22 14:57 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.06U ± 0.628 (1.14) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14541 MW-16D **Lab ID: 30515389043** Collected: 08/02/22 09:48 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0180U ± 0.159 (0.426) C:97% T:NA | pCi/L | 09/14/22 20:33 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.678U ± 0.533 (1.05) C:74% T:61% | pCi/L | 09/13/22 14:57 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.696U ± 0.692 (1.48) | pCi/L | 09/15/22 16:48 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14542 MW-16S **Lab ID: 30515389044** Collected: 08/02/22 10:57 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.861 ± 0.364 (0.413) C:96% T:NA | pCi/L | 09/19/22 14:50 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.571U ± 0.400 (0.761) C:74% T:79% | pCi/L | 09/13/22 14:59 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.43 ± 0.764 (1.17) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14543 MW-15 **Lab ID: 30515389045** Collected: 08/02/22 12:41 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.388U ± 0.241 (0.393) C:97% T:NA | pCi/L | 09/19/22 14:50 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.728 ± 0.404 (0.711) C:72% T:91% | pCi/L | 09/13/22 15:00 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.12 ± 0.645 (1.10) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14544 MW-15V **Lab ID: 30515389046** Collected: 08/02/22 14:22 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0811U ± 0.169 (0.394) C:88% T:NA | pCi/L | 09/19/22 14:50 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.356U ± 0.340 (0.692) C:74% T:91% | pCi/L | 09/13/22 15:00 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.437U ± 0.509 (1.09) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14545 MW-14R **Lab ID: 30515389047** Collected: 08/03/22 08:35 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0998U ± 0.153 (0.337) C:94% T:NA | pCi/L | 09/19/22 14:50 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.450U ± 0.397 (0.797) C:75% T:79% | pCi/L | 09/13/22 15:00 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.550U ± 0.550 (1.13) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14546 MW-25HA **Lab ID: 30515389048** Collected: 08/03/22 10:18 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.285U ± 0.250 (0.461) C:62% T:NA | pCi/L | 09/19/22 14:50 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.445U ± 0.384 (0.770) C:73% T:86% | pCi/L | 09/13/22 15:00 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.730U ± 0.634 (1.23) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14547 MW-10R **Lab ID: 30515389049** Collected: 08/03/22 13:15 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.0235U ± 0.0897 (0.277) C:95% T:NA | pCi/L | 09/19/22 14:50 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.552U ± 0.379 (0.722) C:71% T:91% | pCi/L | 09/13/22 15:00 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.552U ± 0.469 (0.999) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14548 MW-30HA **Lab ID: 30515389050** Collected: 08/03/22 15:17 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.644 ± 0.391 (0.619) C:97% T:NA | pCi/L | 09/19/22 14:50 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.641U ± 0.410 (0.770) C:74% T:86% | pCi/L | 09/13/22 15:00 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.29U ± 0.801 (1.39) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14549 MW-46 **Lab ID: 30515389051** Collected: 08/02/22 11:10 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | -0.0381U ± 0.0880 (0.294) C:92% T:NA | pCi/L | 09/19/22 19:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.314U ± 0.315 (0.645) C:74% T:90% | pCi/L | 09/13/22 15:00 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.314U ± 0.403 (0.939) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14550 MW-46 DUP **Lab ID: 30515389052** Collected: 08/02/22 11:10 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0341U ± 0.113 (0.284) C:97% T:NA | pCi/L | 09/19/22 19:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.321U ± 0.311 (0.630) C:74% T:90% | pCi/L | 09/13/22 15:00 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.355U ± 0.424 (0.914) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14551 MW-01R **Lab ID: 30515389053** Collected: 08/02/22 14:17 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.156U ± 0.178 (0.366) C:96% T:NA | pCi/L | 09/19/22 19:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.374U ± 0.321 (0.637) C:72% T:93% | pCi/L | 09/13/22 15:01 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.530U ± 0.499 (1.00) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14552 MW-31H **Lab ID: 30515389054** Collected: 08/03/22 09:35 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0473U ± 0.131 (0.321) C:89% T:NA | pCi/L | 09/19/22 19:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.273U ± 0.359 (0.763) C:73% T:86% | pCi/L | 09/13/22 15:01 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.320U ± 0.490 (1.08) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14553 MW-31V **Lab ID: 30515389055** Collected: 08/03/22 11:47 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.167U ± 0.156 (0.291) C:93% T:NA | pCi/L | 09/19/22 19:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.529U ± 0.362 (0.691) C:76% T:94% | pCi/L | 09/13/22 15:01 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.696U ± 0.518 (0.982) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14554 MW-43H **Lab ID: 30515389056** Collected: 08/03/22 13:05 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.0403U ± 0.125 (0.370) C:85% T:NA | pCi/L | 09/19/22 19:08 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.252U ± 0.341 (0.727) C:71% T:86% | pCi/L | 09/13/22 15:01 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.252U ± 0.466 (1.10) | pCi/L | 09/20/22 15:13 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14555 MW-8 **Lab ID: 30515389057** Collected: 08/02/22 10:10 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.00792U ± 0.128 (0.356) C:94% T:NA | pCi/L | 09/19/22 19:08 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.154U ± 0.339 (0.753) C:73% T:90% | pCi/L | 09/13/22 15:01 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.154U ± 0.467 (1.11) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14556 MW-40H **Lab ID: 30515389058** Collected: 08/02/22 12:40 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.177U ± 0.161 (0.299) C:97% T:NA | pCi/L | 09/19/22 19:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.431U ± 0.418 (0.857) C:71% T:81% | pCi/L | 09/16/22 15:19 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.608U ± 0.579 (1.16) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14557 MW-05R **Lab ID: 30515389059** Collected: 08/02/22 15:40 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.112U ± 0.136 (0.277) C:96% T:NA | pCi/L | 09/19/22 18:58 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.367U ± 0.343 (0.693) C:73% T:86% | pCi/L | 09/16/22 15:19 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.479U ± 0.479 (0.970) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14558 MW-18R **Lab ID: 30515389060** Collected: 08/03/22 10:08 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0595U ± 0.151 (0.363) C:97% T:NA | pCi/L | 09/19/22 18:58 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.447U ± 0.327 (0.626) C:75% T:98% | pCi/L | 09/16/22 15:20 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.507U ± 0.478 (0.989) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14559 MW-18R DUP **Lab ID: 30515389061** Collected: 08/03/22 10:08 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.502U ± 0.344 (0.539) C:95% T:NA | pCi/L | 09/20/22 09:35 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.329U ± 0.300 (0.608) C:75% T:107% | pCi/L | 09/16/22 15:20 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.831U ± 0.644 (1.15) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14560 MW-29H **Lab ID: 30515389062** Collected: 08/03/22 12:03 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0797U ± 0.163 (0.380) C:90% T:NA | pCi/L | 09/20/22 09:35 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.455U ± 0.368 (0.727) C:77% T:89% | pCi/L | 09/16/22 15:20 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.535U ± 0.531 (1.11) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14561 MW-19 **Lab ID: 30515389063** Collected: 08/03/22 13:50 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.395 ± 0.218 (0.302) C:87% T:NA | pCi/L | 09/20/22 09:35 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.135U ± 0.352 (0.787) C:71% T:87% | pCi/L | 09/16/22 15:20 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.530U ± 0.570 (1.09) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14951 MW-17 **Lab ID: 30515389064** Collected: 08/08/22 14:40 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0413U ± 0.132 (0.328) C:87% T:NA | pCi/L | 09/20/22 09:35 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | -0.0570U ± 0.324 (0.771) C:71% T:92% | pCi/L | 09/16/22 15:20 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.0413U ± 0.456 (1.10) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14952 MW-17V **Lab ID: 30515389065** Collected: 08/09/22 08:42 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.142U ± 0.165 (0.342) C:91% T:NA | pCi/L | 09/20/22 09:35 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.442U ± 0.337 (0.657) C:75% T:93% | pCi/L | 09/16/22 15:20 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.584U ± 0.502 (0.999) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14953 MW-21V **Lab ID: 30515389066** Collected: 08/09/22 12:55 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0944U ± 0.160 (0.361) C:93% T:NA | pCi/L | 09/20/22 09:35 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.364U ± 0.348 (0.710) C:80% T:82% | pCi/L | 09/16/22 15:20 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.458U ± 0.508 (1.07) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14954 EB-1 **Lab ID: 30515389067** Collected: 08/09/22 13:50 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0343U ± 0.116 (0.289) C:97% T:NA | pCi/L | 09/20/22 09:35 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.317U ± 0.359 (0.748) C:64% T:85% | pCi/L | 09/16/22 15:21 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.351U ± 0.475 (1.04) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14955 MW-21 **Lab ID: 30515389068** Collected: 08/10/22 08:54 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.163U ± 0.160 (0.306) C:95% T:NA | pCi/L | 09/20/22 08:47 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.232U ± 0.335 (0.720) C:71% T:92% | pCi/L | 09/16/22 15:20 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.395U ± 0.495 (1.03) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14956 MW-38H **Lab ID: 30515389069** Collected: 08/10/22 12:48 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.234U ± 0.171 (0.284) C:89% T:NA | pCi/L | 09/20/22 08:47 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.177U ± 0.332 (0.728) C:66% T:94% | pCi/L | 09/16/22 15:20 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.411U ± 0.503 (1.01) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14957 MW-45V **Lab ID: 30515389070** Collected: 08/08/22 15:15 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0999U ± 0.154 (0.340) C:90% T:NA | pCi/L | 09/20/22 08:48 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.369U ± 0.385 (0.798) C:72% T:84% | pCi/L | 09/16/22 15:20 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.469U ± 0.539 (1.14) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14958 FB-5 **Lab ID: 30515389071** Collected: 08/08/22 16:00 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0648U ± 0.104 (0.228) C:94% T:NA | pCi/L | 09/20/22 08:58 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.0686U ± 0.312 (0.717) C:67% T:89% | pCi/L | 09/16/22 15:21 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.133U ± 0.416 (0.945) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14959 MW-18VR **Lab ID: 30515389072** Collected: 08/09/22 10:32 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.143U ± 0.161 (0.325) C:105% T:NA | pCi/L | 09/20/22 08:59 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.330U ± 0.309 (0.623) C:71% T:94% | pCi/L | 09/16/22 15:21 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.473U ± 0.470 (0.948) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14960 PZ-22 **Lab ID: 30515389073** Collected: 08/09/22 12:22 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0192U ± 0.124 (0.326) C:92% T:NA | pCi/L | 09/20/22 08:59 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.462U ± 0.393 (0.785) C:69% T:86% | pCi/L | 09/16/22 15:21 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.481U ± 0.517 (1.11) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14960 PZ-22 MS **Lab ID: 30515389074** Collected: 08/09/22 12:22 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 113.43 %REC ± NA (NA) C:NA T:NA | pCi/L | 09/20/22 09:00 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 84.14 %REC ± NA (NA) C:NA T:NA% | pCi/L | 09/16/22 15:21 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377
Pace Project No.: 30515389

Sample: BC14960 PZ-22 MSD **Lab ID: 30515389075** Collected: 08/09/22 12:22 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 98.03 %REC 14.56RPD ± NA (NA) C:NA T:NA | pCi/L | 09/20/22 08:52 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 64.86 %REC 25.88 RPD ± NA (NA) C:NA T:NA% | pCi/L | 09/16/22 15:21 | 15262-20-1 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14961 MW-26H **Lab ID: 30515389076** Collected: 08/10/22 10:53 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0794U ± 0.134 (0.300) C:89% T:NA | pCi/L | 09/19/22 20:49 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0988U ± 0.311 (0.702) C:75% T:95% | pCi/L | 09/16/22 15:21 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.178U ± 0.445 (1.00) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

Sample: BC14962 FB-6 **Lab ID: 30515389077** Collected: 08/10/22 11:30 Received: 08/18/22 09:40 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0477U ± 0.121 (0.291) C:96% T:NA | pCi/L | 09/19/22 20:50 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.0382U ± 0.325 (0.753) C:73% T:88% | pCi/L | 09/16/22 15:21 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.0859U ± 0.446 (1.04) | pCi/L | 09/20/22 15:27 | 7440-14-4 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

QC Batch: 530310

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30515389061, 30515389062, 30515389063, 30515389064, 30515389065, 30515389066, 30515389067, 30515389068, 30515389069, 30515389070, 30515389071, 30515389072, 30515389073, 30515389074, 30515389075, 30515389076, 30515389077

METHOD BLANK: 2572301

Matrix: Water

Associated Lab Samples: 30515389061, 30515389062, 30515389063, 30515389064, 30515389065, 30515389066, 30515389067, 30515389068, 30515389069, 30515389070, 30515389071, 30515389072, 30515389073, 30515389074, 30515389075, 30515389076, 30515389077

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-226 | 0.00826 ± 0.153 (0.424) C:91% T:NA | pCi/L | 09/20/22 09:35 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

QC Batch: 527810

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30515389001, 30515389002, 30515389003, 30515389004, 30515389005, 30515389006, 30515389007, 30515389008, 30515389009, 30515389010, 30515389011, 30515389012, 30515389013, 30515389014, 30515389015, 30515389016, 30515389017

METHOD BLANK: 2560804

Matrix: Water

Associated Lab Samples: 30515389001, 30515389002, 30515389003, 30515389004, 30515389005, 30515389006, 30515389007, 30515389008, 30515389009, 30515389010, 30515389011, 30515389012, 30515389013, 30515389014, 30515389015, 30515389016, 30515389017

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.981 ± 0.360 (0.508) C:81% T:99% | pCi/L | 09/06/22 11:54 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORAP_1377

Pace Project No.: 30515389

QC Batch: 527814

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30515389018, 30515389019, 30515389020, 30515389021, 30515389022, 30515389023, 30515389024, 30515389025, 30515389026, 30515389027, 30515389028, 30515389029, 30515389030, 30515389031, 30515389032, 30515389036, 30515389037, 30515389038, 30515389039, 30515389040

METHOD BLANK: 2560850

Matrix: Water

Associated Lab Samples: 30515389018, 30515389019, 30515389020, 30515389021, 30515389022, 30515389023, 30515389024, 30515389025, 30515389026, 30515389027, 30515389028, 30515389029, 30515389030, 30515389031, 30515389032, 30515389036, 30515389037, 30515389038, 30515389039, 30515389040

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.197 ± 0.293 (0.631) C:77% T:97% | pCi/L | 09/13/22 11:52 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGORAP_1377

Pace Project No.: 30515389

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1377

Pace Project No.: 30515389

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|------------------|
| 30515389001 | BC13427 MW-09R | EPA 9315 | 530302 | | |
| 30515389002 | BC13428 MW-9V | EPA 9315 | 530302 | | |
| 30515389003 | BC13429 MW-03V | EPA 9315 | 530302 | | |
| 30515389004 | BC13430 MW-3 | EPA 9315 | 530302 | | |
| 30515389005 | BC13431 FB-2 | EPA 9315 | 530302 | | |
| 30515389006 | BC13432 MW-2 | EPA 9315 | 530302 | | |
| 30515389007 | BC13433 MW-12 | EPA 9315 | 530302 | | |
| 30515389008 | BC13434 MW-11R | EPA 9315 | 530302 | | |
| 30515389009 | BC13435 MW-11R DUP | EPA 9315 | 530302 | | |
| 30515389010 | BC13436 FB-1 | EPA 9315 | 530302 | | |
| 30515389011 | BC13437 MW-12V | EPA 9315 | 530302 | | |
| 30515389012 | BC13438 MW-13R | EPA 9315 | 530302 | | |
| 30515389013 | BC13439 MW-36H | EPA 9315 | 530302 | | |
| 30515389014 | BC14045 MW-7 | EPA 9315 | 530302 | | |
| 30515389015 | BC14046 MW-7 DIS | EPA 9315 | 530302 | | |
| 30515389016 | BC14047 PZ-16 | EPA 9315 | 530302 | | |
| 30515389017 | BC14048 MW-37HR | EPA 9315 | 530302 | | |
| 30515389018 | BC14049 MW-47 | EPA 9315 | 530302 | | |
| 30515389019 | BC14050 FB-3 | EPA 9315 | 530302 | | |
| 30515389020 | BC14051 MW-36V | EPA 9315 | 530302 | | |
| 30515389021 | BC14052 MW-27HR | EPA 9315 | 530304 | | |
| 30515389022 | BC14053 MW-28H | EPA 9315 | 530304 | | |
| 30515389023 | BC14053 MW-28H MS | EPA 9315 | 530304 | | |
| 30515389024 | BC14053 MW-28H MSD | EPA 9315 | 530304 | | |
| 30515389025 | BC14054 PZ-18R | EPA 9315 | 530304 | | |
| 30515389026 | BC14055 PZ-18R DUP | EPA 9315 | 530304 | | |
| 30515389027 | BC14056 MW-32H | EPA 9315 | 530304 | | |
| 30515389028 | BC14057 MW-6D | EPA 9315 | 530304 | | |
| 30515389029 | BC14058 MW-6V | EPA 9315 | 530304 | | |
| 30515389030 | BC14059 MW-6V DIS | EPA 9315 | 530304 | | |
| 30515389031 | BC14060 MW-6S | EPA 9315 | 530304 | | |
| 30515389032 | BC14061 MW-6S DUP | EPA 9315 | 530304 | | |
| 30515389033 | BC14062 MW-23H | EPA 9315 | 530306 | | |
| 30515389034 | BC14062 MW-23H MS | EPA 9315 | 530306 | | |
| 30515389035 | BC14062 MW-23H MSD | EPA 9315 | 530306 | | |
| 30515389036 | BC14063 MW-23V | EPA 9315 | 530304 | | |
| 30515389037 | BC14064 MW-41HS | EPA 9315 | 530304 | | |
| 30515389038 | BC14065 MW-24H | EPA 9315 | 530304 | | |
| 30515389039 | BC14066 MW-24H DUP | EPA 9315 | 530304 | | |
| 30515389040 | BC14067 MW-41HD | EPA 9315 | 530304 | | |
| 30515389041 | BC14068 FB-4 | EPA 9315 | 530304 | | |
| 30515389042 | BC14069 MW-42H | EPA 9315 | 530304 | | |
| 30515389043 | BC14541 MW-16D | EPA 9315 | 530304 | | |
| 30515389044 | BC14542 MW-16S | EPA 9315 | 530306 | | |
| 30515389045 | BC14543 MW-15 | EPA 9315 | 530306 | | |
| 30515389046 | BC14544 MW-15V | EPA 9315 | 530306 | | |
| 30515389047 | BC14545 MW-14R | EPA 9315 | 530306 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1377

Pace Project No.: 30515389

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|------------------|
| 30515389048 | BC14546 MW-25HA | EPA 9315 | 530306 | | |
| 30515389049 | BC14547 MW-10R | EPA 9315 | 530306 | | |
| 30515389050 | BC14548 MW-30HA | EPA 9315 | 530306 | | |
| 30515389051 | BC14549 MW-46 | EPA 9315 | 530306 | | |
| 30515389052 | BC14550 MW-46 DUP | EPA 9315 | 530306 | | |
| 30515389053 | BC14551 MW-01R | EPA 9315 | 530306 | | |
| 30515389054 | BC14552 MW-31H | EPA 9315 | 530306 | | |
| 30515389055 | BC14553 MW-31V | EPA 9315 | 530306 | | |
| 30515389056 | BC14554 MW-43H | EPA 9315 | 530306 | | |
| 30515389057 | BC14555 MW-8 | EPA 9315 | 530306 | | |
| 30515389058 | BC14556 MW-40H | EPA 9315 | 530306 | | |
| 30515389059 | BC14557 MW-05R | EPA 9315 | 530306 | | |
| 30515389060 | BC14558 MW-18R | EPA 9315 | 530306 | | |
| 30515389061 | BC14559 MW-18R DUP | EPA 9315 | 530310 | | |
| 30515389062 | BC14560 MW-29H | EPA 9315 | 530310 | | |
| 30515389063 | BC14561 MW-19 | EPA 9315 | 530310 | | |
| 30515389064 | BC14951 MW-17 | EPA 9315 | 530310 | | |
| 30515389065 | BC14952 MW-17V | EPA 9315 | 530310 | | |
| 30515389066 | BC14953 MW-21V | EPA 9315 | 530310 | | |
| 30515389067 | BC14954 EB-1 | EPA 9315 | 530310 | | |
| 30515389068 | BC14955 MW-21 | EPA 9315 | 530310 | | |
| 30515389069 | BC14956 MW-38H | EPA 9315 | 530310 | | |
| 30515389070 | BC14957 MW-45V | EPA 9315 | 530310 | | |
| 30515389071 | BC14958 FB-5 | EPA 9315 | 530310 | | |
| 30515389072 | BC14959 MW-18VR | EPA 9315 | 530310 | | |
| 30515389073 | BC14960 PZ-22 | EPA 9315 | 530310 | | |
| 30515389074 | BC14960 PZ-22 MS | EPA 9315 | 530310 | | |
| 30515389075 | BC14960 PZ-22 MSD | EPA 9315 | 530310 | | |
| 30515389076 | BC14961 MW-26H | EPA 9315 | 530310 | | |
| 30515389077 | BC14962 FB-6 | EPA 9315 | 530310 | | |
| 30515389001 | BC13427 MW-09R | EPA 9320 | 527810 | | |
| 30515389002 | BC13428 MW-9V | EPA 9320 | 527810 | | |
| 30515389003 | BC13429 MW-03V | EPA 9320 | 527810 | | |
| 30515389004 | BC13430 MW-3 | EPA 9320 | 527810 | | |
| 30515389005 | BC13431 FB-2 | EPA 9320 | 527810 | | |
| 30515389006 | BC13432 MW-2 | EPA 9320 | 527810 | | |
| 30515389007 | BC13433 MW-12 | EPA 9320 | 527810 | | |
| 30515389008 | BC13434 MW-11R | EPA 9320 | 527810 | | |
| 30515389009 | BC13435 MW-11R DUP | EPA 9320 | 527810 | | |
| 30515389010 | BC13436 FB-1 | EPA 9320 | 527810 | | |
| 30515389011 | BC13437 MW-12V | EPA 9320 | 527810 | | |
| 30515389012 | BC13438 MW-13R | EPA 9320 | 527810 | | |
| 30515389013 | BC13439 MW-36H | EPA 9320 | 527810 | | |
| 30515389014 | BC14045 MW-7 | EPA 9320 | 527810 | | |
| 30515389015 | BC14046 MW-7 DIS | EPA 9320 | 527810 | | |
| 30515389016 | BC14047 PZ-16 | EPA 9320 | 527810 | | |
| 30515389017 | BC14048 MW-37HR | EPA 9320 | 527810 | | |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1377

Pace Project No.: 30515389

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|------------------|
| 30515389018 | BC14049 MW-47 | EPA 9320 | 527814 | | |
| 30515389019 | BC14050 FB-3 | EPA 9320 | 527814 | | |
| 30515389020 | BC14051 MW-36V | EPA 9320 | 527814 | | |
| 30515389021 | BC14052 MW-27HR | EPA 9320 | 527814 | | |
| 30515389022 | BC14053 MW-28H | EPA 9320 | 527814 | | |
| 30515389023 | BC14053 MW-28H MS | EPA 9320 | 527814 | | |
| 30515389024 | BC14053 MW-28H MSD | EPA 9320 | 527814 | | |
| 30515389025 | BC14054 PZ-18R | EPA 9320 | 527814 | | |
| 30515389026 | BC14055 PZ-18R DUP | EPA 9320 | 527814 | | |
| 30515389027 | BC14056 MW-32H | EPA 9320 | 527814 | | |
| 30515389028 | BC14057 MW-6D | EPA 9320 | 527814 | | |
| 30515389029 | BC14058 MW-6V | EPA 9320 | 527814 | | |
| 30515389030 | BC14059 MW-6V DIS | EPA 9320 | 527814 | | |
| 30515389031 | BC14060 MW-6S | EPA 9320 | 527814 | | |
| 30515389032 | BC14061 MW-6S DUP | EPA 9320 | 527814 | | |
| 30515389033 | BC14062 MW-23H | EPA 9320 | 527817 | | |
| 30515389034 | BC14062 MW-23H MS | EPA 9320 | 527817 | | |
| 30515389035 | BC14062 MW-23H MSD | EPA 9320 | 527817 | | |
| 30515389036 | BC14063 MW-23V | EPA 9320 | 527814 | | |
| 30515389037 | BC14064 MW-41HS | EPA 9320 | 527814 | | |
| 30515389038 | BC14065 MW-24H | EPA 9320 | 527814 | | |
| 30515389039 | BC14066 MW-24H DUP | EPA 9320 | 527814 | | |
| 30515389040 | BC14067 MW-41HD | EPA 9320 | 527814 | | |
| 30515389041 | BC14068 FB-4 | EPA 9320 | 527817 | | |
| 30515389042 | BC14069 MW-42H | EPA 9320 | 527817 | | |
| 30515389043 | BC14541 MW-16D | EPA 9320 | 527817 | | |
| 30515389044 | BC14542 MW-16S | EPA 9320 | 527817 | | |
| 30515389045 | BC14543 MW-15 | EPA 9320 | 527817 | | |
| 30515389046 | BC14544 MW-15V | EPA 9320 | 527817 | | |
| 30515389047 | BC14545 MW-14R | EPA 9320 | 527817 | | |
| 30515389048 | BC14546 MW-25HA | EPA 9320 | 527817 | | |
| 30515389049 | BC14547 MW-10R | EPA 9320 | 527817 | | |
| 30515389050 | BC14548 MW-30HA | EPA 9320 | 527817 | | |
| 30515389051 | BC14549 MW-46 | EPA 9320 | 527817 | | |
| 30515389052 | BC14550 MW-46 DUP | EPA 9320 | 527817 | | |
| 30515389053 | BC14551 MW-01R | EPA 9320 | 527817 | | |
| 30515389054 | BC14552 MW-31H | EPA 9320 | 527817 | | |
| 30515389055 | BC14553 MW-31V | EPA 9320 | 527817 | | |
| 30515389056 | BC14554 MW-43H | EPA 9320 | 527817 | | |
| 30515389057 | BC14555 MW-8 | EPA 9320 | 527817 | | |
| 30515389058 | BC14556 MW-40H | EPA 9320 | 527873 | | |
| 30515389059 | BC14557 MW-05R | EPA 9320 | 527873 | | |
| 30515389060 | BC14558 MW-18R | EPA 9320 | 527873 | | |
| 30515389061 | BC14559 MW-18R DUP | EPA 9320 | 527873 | | |
| 30515389062 | BC14560 MW-29H | EPA 9320 | 527873 | | |
| 30515389063 | BC14561 MW-19 | EPA 9320 | 527873 | | |
| 30515389064 | BC14951 MW-17 | EPA 9320 | 527873 | | |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1377

Pace Project No.: 30515389

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|--------------------------|----------|-------------------|------------------|
| 30515389065 | BC14952 MW-17V | EPA 9320 | 527873 | | |
| 30515389066 | BC14953 MW-21V | EPA 9320 | 527873 | | |
| 30515389067 | BC14954 EB-1 | EPA 9320 | 527873 | | |
| 30515389068 | BC14955 MW-21 | EPA 9320 | 527873 | | |
| 30515389069 | BC14956 MW-38H | EPA 9320 | 527873 | | |
| 30515389070 | BC14957 MW-45V | EPA 9320 | 527873 | | |
| 30515389071 | BC14958 FB-5 | EPA 9320 | 527873 | | |
| 30515389072 | BC14959 MW-18VR | EPA 9320 | 527873 | | |
| 30515389073 | BC14960 PZ-22 | EPA 9320 | 527873 | | |
| 30515389074 | BC14960 PZ-22 MS | EPA 9320 | 527873 | | |
| 30515389075 | BC14960 PZ-22 MSD | EPA 9320 | 527873 | | |
| 30515389076 | BC14961 MW-26H | EPA 9320 | 527873 | | |
| 30515389077 | BC14962 FB-6 | EPA 9320 | 527873 | | |
| 30515389001 | BC13427 MW-09R | Total Radium Calculation | 533234 | | |
| 30515389002 | BC13428 MW-9V | Total Radium Calculation | 533234 | | |
| 30515389003 | BC13429 MW-03V | Total Radium Calculation | 533234 | | |
| 30515389004 | BC13430 MW-3 | Total Radium Calculation | 533234 | | |
| 30515389005 | BC13431 FB-2 | Total Radium Calculation | 533234 | | |
| 30515389006 | BC13432 MW-2 | Total Radium Calculation | 533234 | | |
| 30515389007 | BC13433 MW-12 | Total Radium Calculation | 533234 | | |
| 30515389008 | BC13434 MW-11R | Total Radium Calculation | 533234 | | |
| 30515389009 | BC13435 MW-11R DUP | Total Radium Calculation | 533234 | | |
| 30515389010 | BC13436 FB-1 | Total Radium Calculation | 533234 | | |
| 30515389011 | BC13437 MW-12V | Total Radium Calculation | 533234 | | |
| 30515389012 | BC13438 MW-13R | Total Radium Calculation | 533234 | | |
| 30515389013 | BC13439 MW-36H | Total Radium Calculation | 533234 | | |
| 30515389014 | BC14045 MW-7 | Total Radium Calculation | 533234 | | |
| 30515389015 | BC14046 MW-7 DIS | Total Radium Calculation | 533234 | | |
| 30515389016 | BC14047 PZ-16 | Total Radium Calculation | 533234 | | |
| 30515389017 | BC14048 MW-37HR | Total Radium Calculation | 533234 | | |
| 30515389018 | BC14049 MW-47 | Total Radium Calculation | 533234 | | |
| 30515389019 | BC14050 FB-3 | Total Radium Calculation | 533234 | | |
| 30515389020 | BC14051 MW-36V | Total Radium Calculation | 533234 | | |
| 30515389021 | BC14052 MW-27HR | Total Radium Calculation | 533240 | | |
| 30515389022 | BC14053 MW-28H | Total Radium Calculation | 533240 | | |
| 30515389025 | BC14054 PZ-18R | Total Radium Calculation | 533240 | | |
| 30515389026 | BC14055 PZ-18R DUP | Total Radium Calculation | 533240 | | |
| 30515389027 | BC14056 MW-32H | Total Radium Calculation | 533240 | | |
| 30515389028 | BC14057 MW-6D | Total Radium Calculation | 533240 | | |
| 30515389029 | BC14058 MW-6V | Total Radium Calculation | 533240 | | |
| 30515389030 | BC14059 MW-6V DIS | Total Radium Calculation | 533240 | | |
| 30515389031 | BC14060 MW-6S | Total Radium Calculation | 533240 | | |
| 30515389032 | BC14061 MW-6S DUP | Total Radium Calculation | 533240 | | |
| 30515389033 | BC14062 MW-23H | Total Radium Calculation | 534136 | | |
| 30515389036 | BC14063 MW-23V | Total Radium Calculation | 533240 | | |
| 30515389037 | BC14064 MW-41HS | Total Radium Calculation | 533240 | | |
| 30515389038 | BC14065 MW-24H | Total Radium Calculation | 533240 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1377

Pace Project No.: 30515389

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|--------------------------|----------|-------------------|------------------|
| 30515389039 | BC14066 MW-24H DUP | Total Radium Calculation | 533240 | | |
| 30515389040 | BC14067 MW-41HD | Total Radium Calculation | 533240 | | |
| 30515389041 | BC14068 FB-4 | Total Radium Calculation | 533240 | | |
| 30515389042 | BC14069 MW-42H | Total Radium Calculation | 533240 | | |
| 30515389043 | BC14541 MW-16D | Total Radium Calculation | 533240 | | |
| 30515389044 | BC14542 MW-16S | Total Radium Calculation | 534136 | | |
| 30515389045 | BC14543 MW-15 | Total Radium Calculation | 534136 | | |
| 30515389046 | BC14544 MW-15V | Total Radium Calculation | 534136 | | |
| 30515389047 | BC14545 MW-14R | Total Radium Calculation | 534136 | | |
| 30515389048 | BC14546 MW-25HA | Total Radium Calculation | 534136 | | |
| 30515389049 | BC14547 MW-10R | Total Radium Calculation | 534136 | | |
| 30515389050 | BC14548 MW-30HA | Total Radium Calculation | 534136 | | |
| 30515389051 | BC14549 MW-46 | Total Radium Calculation | 534136 | | |
| 30515389052 | BC14550 MW-46 DUP | Total Radium Calculation | 534136 | | |
| 30515389053 | BC14551 MW-01R | Total Radium Calculation | 534136 | | |
| 30515389054 | BC14552 MW-31H | Total Radium Calculation | 534136 | | |
| 30515389055 | BC14553 MW-31V | Total Radium Calculation | 534136 | | |
| 30515389056 | BC14554 MW-43H | Total Radium Calculation | 534136 | | |
| 30515389057 | BC14555 MW-8 | Total Radium Calculation | 534141 | | |
| 30515389058 | BC14556 MW-40H | Total Radium Calculation | 534141 | | |
| 30515389059 | BC14557 MW-05R | Total Radium Calculation | 534141 | | |
| 30515389060 | BC14558 MW-18R | Total Radium Calculation | 534141 | | |
| 30515389061 | BC14559 MW-18R DUP | Total Radium Calculation | 534141 | | |
| 30515389062 | BC14560 MW-29H | Total Radium Calculation | 534141 | | |
| 30515389063 | BC14561 MW-19 | Total Radium Calculation | 534141 | | |
| 30515389064 | BC14951 MW-17 | Total Radium Calculation | 534141 | | |
| 30515389065 | BC14952 MW-17V | Total Radium Calculation | 534141 | | |
| 30515389066 | BC14953 MW-21V | Total Radium Calculation | 534141 | | |
| 30515389067 | BC14954 EB-1 | Total Radium Calculation | 534141 | | |
| 30515389068 | BC14955 MW-21 | Total Radium Calculation | 534141 | | |
| 30515389069 | BC14956 MW-38H | Total Radium Calculation | 534141 | | |
| 30515389070 | BC14957 MW-45V | Total Radium Calculation | 534141 | | |
| 30515389071 | BC14958 FB-5 | Total Radium Calculation | 534141 | | |
| 30515389072 | BC14959 MW-18VR | Total Radium Calculation | 534141 | | |
| 30515389073 | BC14960 PZ-22 | Total Radium Calculation | 534141 | | |
| 30515389076 | BC14961 MW-26H | Total Radium Calculation | 534141 | | |
| 30515389077 | BC14962 FB-6 | Total Radium Calculation | 534141 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | | | | |
|-------------------------------------|--|---------------------------------------|--|---------------------------------------|--|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | | Report To: Renee Jernigan | | Attention: Renee Jernigan | |
| Address: 744 Highway 87 GSC Bldg #8 | | Copy To: Brooke Caton & Blaine Denton | | Company Name: Alabama Power Co. | |
| Galera, AL 35040 | | Purchase Order # | | Address: 744 Highway 87 GSC Bldg #8 | |
| Email To: rgamer@southernco.com | | APC10755638 | | CCR | |
| Phone: 205-664-6247 Fax | | Project Name: Plant Gorgas Ash Pond | | Pass Project Manager: Skyler Richmond | |
| Requested Due Date: Normal | | Project Number: VMWGORAP 1377 | | Pass Profile #: 16788 | |
| | | | | Regulatory Agency: AL | |
| | | | | State / Location: AL | |

| ITEM # | Description | Station Name Location_Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filled | Matrix Code | SAMPLE TYPE (G=GRAB O=COMP) | COLLECTED | | # OF CONTAINERS | Unpreserved | NaOH+ZnAcetate | HNO3 | Analyses Test | | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) |
|--------|-------------|----------------------------|-----------------------|------------------|-------------------------------------|--------------|-------------|-----------------------------|------------|-------|-----------------|-------------|----------------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|
| | | | | | | | | | START DATE | TIME | | | | | Y/N | Y/N | | | | | |
| 1 | BC13439 | APCO-GS-AP-MW-36H | APCO_Gorgas_AshPond | | | | GW | G | 7/20/2022 | 12:50 | 1 | | | X | X | X | X | X | | | 013 |
| 2 | BC14045 | MW-7 | APCO_Gorgas_AshPond | | | | GW | G | 7/25/2022 | 12:05 | 1 | | | X | X | X | X | X | | | 014 |
| 3 | BC14046 | MW-7 DIS | APCO_Gorgas_AshPond | | | X | GW | G | 7/25/2022 | 12:05 | 1 | | | X | X | X | X | X | | | 015 |
| 4 | BC14047 | PZ-16 | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 10:58 | 1 | | | X | X | X | X | X | | | 016 |
| 5 | BC14048 | MW-37HR | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 14:03 | 1 | | | X | X | X | X | X | | | 017 |
| 6 | BC14049 | MW-47 | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 16:01 | 1 | | | X | X | X | X | X | | | 018 |
| 7 | BC14050 | FB-3 | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 16:30 | 1 | | | X | X | X | X | X | | | 019 |
| 8 | BC14051 | MW-36V | APCO_Gorgas_AshPond | | | | GW | G | 7/27/2022 | 9:42 | 1 | | | X | X | X | X | X | | | 020 |
| 9 | BC14052 | MW-27HR | APCO_Gorgas_AshPond | | | | GW | G | 7/27/2022 | 11:27 | 1 | | | X | X | X | X | X | | | 021 |
| 10 | BC14053 | MW-28H | APCO_GS-AP-MW-28H | | X | | GW | G | 7/27/2022 | 13:03 | 3 | | | X | X | X | X | X | | | 022-023-024 |
| 11 | BC14054 | PZ-18R | APCO_GS-AP-PZ-18R | | | | GW | G | 7/27/2022 | 14:36 | 1 | | | X | X | X | X | X | | | 025 |
| 12 | BC14055 | PZ-18R DUP | APCO_GS-AP-PZ-18R | | | X | GW | G | 7/27/2022 | 14:36 | 1 | | | X | X | X | X | X | | | 026 |

| | | | | | | | |
|----------------------------|------------------------------|-----------|-------|---------------------------|---------|------|-------------------|
| ADDITIONAL COMMENTS | REQUISITION BY / AFFILIATION | DATE | TIME | ASCEITED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
| | Renee Jernigan/ APC GTL | 8/11/2022 | 15:15 | <i>Renee Jernigan</i> | 8/11/22 | 8:48 | |

WO#: 30515389

PM: SCR Due Date: 09/09/22

CLIENT: ALABAMA PWR

| | |
|-------------------------------|-------------------------------|
| PRINT NAME OF SAMPLER: | Anthony Goggins/Dallas Gentry |
| SIGNATURE OF SAMPLER: | <i>Anthony Goggins</i> |
| DATE SIGNED: | |

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | | | | |
|-------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------------------------|--|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | Report To: Renee Jernigan | Attention: Renee Jernigan | Company Name: Alabama Power Co. | | |
| Address: 744 Highway 87 GSC Bldg #8 | Copy To: Brooke Caton & Blaine Denton | Address: 744 Highway 87 GSC Bldg #8 | Pace Quote: CCR | | |
| Calera, AL 35040 | Purchase Order #: APC10755638 | Project Name: Plant Gorgas Ash Pond | Pace Project Manager: Skyler Richmond | | |
| Email To: rgamer@southernco.com | Phone: 205-664-6247 Fax: | Requested Due Date: Normal | Project Number: WNWGORAP 377 | Pace Profile #: 16788 | |

| ITEM # | Description | Station Name Location_Codes | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | # OF CONTAINERS | Preservatives | | | Analyses Test | EPA 8315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) |
|--------|-------------|-----------------------------|-----------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|-----------------|---------------|----------------|------|---------------|----------|----------|------------------|---------------|-------------------------|
| | | | | | | | | | DATE | TIME | | Unpreserved | NaOH+ZnAcetate | HNO3 | | | | | | |
| 1 | BC14056 | APCO-GS-AP-MW-32H | APCO_Gorgas_AshPond | | | | GW | G | 7/27/2022 | 12:42 | 1 | | | X | X | X | X | | | |
| 2 | BC14057 | APCO-GS-AP-MW-6D | APCO_Gorgas_AshPond | | | | GW | G | 7/29/2022 | 11:40 | 1 | | | X | X | X | X | | | |
| 3 | BC14058 | APCO-GS-AP-MW-6V | APCO_Gorgas_AshPond | | | | GW | G | 7/29/2022 | 17:55 | 1 | | | X | X | X | X | | | |
| 4 | BC14059 | APCO-GS-AP-MW-6V | APCO_Gorgas_AshPond | | | X | GW | G | 7/29/2022 | 17:55 | 1 | | | X | X | X | X | | | |
| 5 | BC14060 | APCO-GS-AP-MW-6S | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 10:00 | 1 | | | X | X | X | X | | | |
| 6 | BC14061 | APCO-GS-AP-MW-6S | APCO_Gorgas_AshPond | X | | | GW | G | 7/26/2022 | 10:00 | 1 | | | X | X | X | X | | | |
| 7 | BC14062 | APCO-GS-AP-MW-23H | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 11:30 | 3 | | | X | X | X | X | | | |
| 8 | BC14063 | APCO-GS-AP-MW-23V | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 12:44 | 1 | | | X | X | X | X | | | |
| 9 | BC14064 | APCO-GS-AP-MW-41HS | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 14:15 | 1 | | | X | X | X | X | | | |
| 10 | BC14065 | APCO-GS-AP-MW-24H | APCO_Gorgas_AshPond | | | | GW | G | 7/27/2022 | 10:10 | 1 | | | X | X | X | X | | | |
| 11 | BC14066 | APCO-GS-AP-MW-24H | APCO_Gorgas_AshPond | X | | | GW | G | 7/27/2022 | 10:10 | 1 | | | X | X | X | X | | | |
| 12 | BC14067 | APCO-GS-AP-MW-41HD | APCO_Gorgas_AshPond | | | | GW | G | 7/27/2022 | 11:45 | 1 | | | X | X | X | X | | | |

| | | | | | | |
|----------------------------|--------------------------------------|-------------|-------------|----------------------------------|-------------|-------------|
| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
| | Renee Jernigan/ APC GTL | 8/11/2022 | 15:15 | <i>Renee Jernigan</i> | 8/18/22 | 9:40 |

| | |
|-------------------------------|------------------------------|
| PRINT NAME OF SAMPLER: | Anthony Goggins/TJ Daugherty |
| SIGNATURE OF SAMPLER: | <i>Anthony Goggins</i> |
| DATE SIGNED: | |

WO#: 30515389

PM: SCR Due Date: 09/09/22
CLIENT: ALABAMA PWR

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other Company

Tracking #: 5870 18974883 / 5870 1897 4894 / 5870 18974920

| | |
|------------|-----------|
| Label | <u>PS</u> |
| LIMS Login | <u>VP</u> |

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue None
 Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
 Temp should be above freezing to 6°C

5870 1897
4920
5870 1897
4931
5870 1897
4910
5870 1897
4909

| Comments: | Yes | No | N/A | pH paper Lot# | Date and Initials of person examining contents: | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-----------------------------|---|---|
| | | | | <u>10D0421</u> | <u>PS 8/18/22</u> | |
| Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. | | |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. | | |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. | | |
| Sampler Name & Signature on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. | <u>No sig.</u> | |
| Sample Labels match COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. | | |
| -Includes date/time/ID Matrix: <u>WT</u> | | | | | | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. | | |
| Short Hold Time Analysis (<72hr remaining): | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. | | |
| Rush Turn Around Time Requested: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. | | |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. | | |
| Correct Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. | | |
| -Pace Containers Used: | | | | | | |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. | | |
| Orthophosphate field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 12. | | |
| Hex Cr Aqueous sample field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 13. | | |
| Organic Samples checked for dechlorination: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 14. | | |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. | | |
| All containers have been checked for preservation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. | | |
| exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | | | | <u>PH < 2</u> | | |
| All containers meet method preservation requirements. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed | <u>PS</u> | Date/time of preservation |
| | | | | Lot # of added preservative | | |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 17. | | |
| Trip Blank Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 18. | | |
| Trip Blank Custody Seals Present | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | |
| Rad Samples Screened < 0.5 mrem/hr | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: | <u>PS</u> | Date: <u>8/18/22</u> Survey Meter SN: <u>1563</u> |

WO#: 30515389
 PH: SCR Due Date: 09/09/22
 CLIENT: ALABAMA PWR

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: _____

Sample BC14551 (053) also had MS/MSD sent.

MS and MSD added to end in LIMS.
(078) (079)

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Please follow these instructions
for the following project.

profile: 16788

Sample IDs:

Sample ID + ~~FAA~~ ^{Description}

Example: BC13427 MW-09R

WO#: 30515389

PM: SCR

Due Date: 09/09/22

CLIENT: ALABAMA PWR

1 BPIN for each sample

Sample 015 field filtered means ^{log} Dissolved Radium 226
Dissolved Radium 228
Total Radium 226+228 only

Samples 022, 023, 024

BC14053 MW-28H

Type PS

BC14053 MW-28H MS

Type RQS add note

BC14053 MW-28H MSD

Type RQS add note

Sample 030 Field Filtered log Dissolved Radium 226

Dissolved Radium 228

TOTAL Radium 226+228 only

Sample 033, 034, 035

BC14062 MW-23H

Type PS

BC14062 MW-23H MS

Type RQS add note

BC14062 MW-23H MSD

Type RQS add note

Sample 073, 074, 075

BC14960 P2-22

Type PS

BC14960 P2-22 MS

Type RQS add note

BC14960 P2-22 MSD

Type RQS add note

Quality Control Sample Performance Assessment



Analyt Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: RMS
Date: 9/9/2022
Worklist: 68695
Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2572294 |
| MB concentration: | 0.144 |
| MB Counting Uncertainty: | 0.269 |
| MB MDC: | 0.618 |
| MB Numerical Performance Indicator: | 1.05 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCS# | Y or N? | Y |
|---|-----------|----------|---------|-----------|
| Count Date: | 9/15/2022 | LCS68695 | | 9/15/2022 |
| Spike I.D.: | 19-033 | | | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.024 | | | 24.024 |
| Volume Used (mL): | 0.10 | | | 0.10 |
| Aliquot Volume (L, g, F): | 0.171 | | | 0.172 |
| Target Conc. (pCi/L, g, F): | 14.054 | | | 13.974 |
| Uncertainty (Calculated): | 0.169 | | | 0.168 |
| Result (pCi/L, g, F): | 12.833 | | | 11.892 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 1.473 | | | 1.420 |
| Numerical Performance Indicator: | -1.61 | | | -2.85 |
| Percent Recovery: | 91.32% | | | 85.11% |
| Status vs Numerical Indicator: | N/A | | | N/A |
| Status vs Recovery: | Pass | | | Pass |
| Upper % Recovery Limits: | 125% | | | 125% |
| Lower % Recovery Limits: | 75% | | | 75% |

| Duplicate Sample Assessment | | LCS# | Y or N? | Y |
|---|----------------|------|---------|----------------|
| Sample I.D.: | 30515389019 | | | 30515389019 |
| Duplicate Sample I.D.: | 30515389019DUP | | | 30515389019DUP |
| Sample Result (pCi/L, g, F): | 12.833 | | | -0.047 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 1.473 | | | 0.196 |
| Sample Duplicate Result (pCi/L, g, F): | 11.892 | | | 0.034 |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | 1.420 | | | 0.181 |
| Are sample and/or duplicate results below RL? | NO | | | See Below # |
| Duplicate Numerical Performance Indicator: | 0.901 | | | -0.598 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 7.04% | | | -1188.57% |
| Duplicate Status vs Numerical Indicator: | N/A | | | N/A |
| Duplicate Status vs RPD: | Pass | | | Pass |
| % RPD Limit: | 25% | | | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Em 9/15/22

VAM 9/15/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 8/26/2022
Worklist: 68502
Matrix: WT

| Method Blank Assessment | MB Sample ID |
|-------------------------------------|--------------|
| MB concentration: | 2560804 |
| MB 2 Sigma CSU: | 0.981 |
| MB MDC: | 0.360 |
| MB Numerical Performance Indicator: | 0.508 |
| MB Status vs Numerical Indicator: | 5.34 |
| MB Status vs. MDC: | Fail* |
| | See Comment* |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | |
|---|----------------|-----------|
| | LCS68502 | Y |
| Count Date: | 9/6/2022 | LCS068502 |
| Spike I.D.: | 22-016 | 9/6/2022 |
| Decay Corrected Spike Concentration (pCi/mL): | 34.424 | 22-016 |
| Volume Used (mL): | 0.10 | 34.424 |
| Aliquot Volume (L, g, F): | 0.805 | 0.10 |
| Target Conc. (pCi/L, g, F): | 4.268 | 0.805 |
| Uncertainty (Calculated): | 0.209 | 4.275 |
| Result (pCi/L, g, F): | 3.179 | 0.209 |
| LCSD/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.890 | 3.179 |
| Numerical Performance Indicator: | -1.18 | 0.816 |
| Percent Recovery: | 87.11% | -2.55 |
| Status vs Numerical Indicator: | N/A | 74.37% |
| Upper % Recovery Limits: | 135% | Pass |
| Lower % Recovery Limits: | 60% | 60% |

| Duplicate Sample Assessment | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
|--|---|
| Sample I.D.: | LCS68502 |
| Duplicate Sample I.D.: | LCS068502 |
| Sample Result (pCi/L, g, F): | 3.717 |
| Sample Duplicate Result (pCi/L, g, F): | 0.890 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 3.179 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.816 |
| Are sample and/or duplicate results below RL? | NO |
| Duplicate Numerical Performance Indicator: | 0.874 |
| (Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD: | 15.78% |
| Duplicate Status vs Numerical Indicator: | Pass |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|--|----------|----------|
| Sample Collection Date: | | |
| Sample I.D.: | | |
| Sample MS I.D.: | | |
| Sample MSD I.D.: | | |
| Spike I.D.: | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | |
| Spike Volume Used in MS (mL): | | |
| Spike Volume Used in MSD (mL): | | |
| MS Aliquot (L, g, F): | | |
| MS Target Conc. (pCi/L, g, F): | | |
| MSD Aliquot (L, g, F): | | |
| MSD Target Conc. (pCi/L, g, F): | | |
| MS Spike Uncertainty (calculated): | | |
| MSD Spike Uncertainty (calculated): | | |
| Sample Result: | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Matrix Spike Result: | | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Matrix Spike Duplicate Result: | | |
| MS Numerical Performance Indicator: | | |
| MSD Numerical Performance Indicator: | | |
| MS Percent Recovery: | | |
| MSD Percent Recovery: | | |
| MS Status vs Numerical Indicator: | | |
| MSD Status vs Numerical Indicator: | | |
| MS Status vs Recovery: | | |
| MSD Status vs Recovery: | | |
| MS/MSD Upper % Recovery Limits: | | |
| MS/MSD Lower % Recovery Limits: | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment |
|---|
| Sample I.D.: |
| Sample MS I.D.: |
| Sample MSD I.D.: |
| Sample Matrix Spike Result: |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): |
| Sample Matrix Spike Duplicate Result: |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): |
| Duplicate Numerical Performance Indicator: |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: |
| MS/MSD Duplicate Status vs Numerical Indicator: |
| MS/MSD Duplicate Status vs RPD: |
| % RPD Limit: |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Qual/7/22

Qual/7/22

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: VAL
Date: 8/29/2022
Worklist: 68503
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2560850 |
| MB concentration: | 0.197 |
| MB 2 Sigma CSU: | 0.293 |
| MB MDC: | 0.631 |
| MB Numerical Performance Indicator: | 1.32 |
| MB Status vs. Numerical Indicator: | Pass |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | |
|---|-----------|
| LCSID (Y or N)? | N |
| LCS68503 | LCS68503 |
| Count Date: | 9/13/2022 |
| Spike I.D.: | 22-016 |
| Decay Corrected Spike Concentration (pCi/mL): | 34.344 |
| Volume Used (mL): | 0.10 |
| Aliquot Volume (L, g, F): | 0.808 |
| Target Conc. (pCi/L, g, F): | 4.253 |
| Uncertainty (Calculated): | 0.208 |
| Result (pCi/L, g, F): | 3.979 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.962 |
| Numerical Performance Indicator: | -0.55 |
| Percent Recovery: | 93.56% |
| Status vs Numerical Indicator: | N/A |
| Status vs Recovery: | Pass |
| Upper % Recovery Limits: | 135% |
| Lower % Recovery Limits: | 60% |

| Duplicate Sample Assessment | |
|--|---|
| Sample I.D.: | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D.: | |
| Sample Result (pCi/L, g, F): | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|--|--|-------------|----------|
| Sample Collection Date: | | 7/27/2022 | |
| Sample I.D.: | | 30515389022 | |
| Sample MS I.D.: | | 30515389023 | |
| Sample MSD I.D.: | | 30515389024 | |
| Spike I.D.: | | 22-016 | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | 34.892 | |
| Spike Volume Used in MS (mL): | | 0.20 | |
| Spike Volume Used in MSD (mL): | | 0.20 | |
| MS Aliquot (L, g, F): | | 0.808 | |
| MS Target Conc. (pCi/L, g, F): | | 8.639 | |
| MSD Aliquot (L, g, F): | | 0.805 | |
| MSD Target Conc. (pCi/L, g, F): | | 8.668 | |
| MS Spike Uncertainty (calculated): | | 0.423 | |
| MSD Spike Uncertainty (calculated): | | 0.425 | |
| Sample Result: | | 0.742 | |
| Sample Matrix Spike Result: | | 0.371 | |
| Sample Matrix Spike Result: | | 7.622 | |
| Sample Matrix Spike Result: | | 1.560 | |
| Sample Matrix Spike Duplicate Result: | | 8.144 | |
| Sample Matrix Spike Duplicate Result: | | 1.662 | |
| MS Numerical Performance Indicator: | | -2.078 | |
| MSD Numerical Performance Indicator: | | -1.414 | |
| MS Percent Recovery: | | 79.64% | |
| MSD Percent Recovery: | | 85.39% | |
| MS Status vs Numerical Indicator: | | Warning | |
| MSD Status vs Numerical Indicator: | | Pass | |
| MS Status vs Recovery: | | Pass | |
| MSD Status vs Recovery: | | Pass | |
| MS/MSD Upper % Recovery Limits: | | 135% | |
| MS/MSD Lower % Recovery Limits: | | 60% | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30515389022 |
| Sample MS I.D.: | 30515389023 |
| Sample MSD I.D.: | 30515389024 |
| Matrix Spike Result: | 7.622 |
| Sample Matrix Spike Duplicate Result: | 1.560 |
| Sample Matrix Spike Duplicate Result: | 8.144 |
| Sample Matrix Spike Duplicate Result: | 1.662 |
| Duplicate Numerical Performance Indicator: | -0.448 |
| Duplicate Numerical Performance Indicator: | 6.97% |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | Pass |
| MS/MSD Duplicate Status vs Numerical Indicator: | Pass |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

Signature

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: RMS
 Date: 9/8/2022
 Worklist: 68698
 Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2572301 |
| MB Concentration: | 0.008 |
| MB Counting Uncertainty: | 0.153 |
| MB MDC: | 0.424 |
| MB Numerical Performance Indicator: | 0.11 |
| MB Status vs. MDC: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | Y |
|---|------------|-----------|
| Count Date: | LCS D68698 | 9/19/2022 |
| Spike I.D.: | 19-033 | 24.024 |
| Decay Corrected Spike Concentration (pCi/mL): | 0.10 | 0.10 |
| Volume Used (mL): | 0.201 | 0.200 |
| Aliquot Volume (L, g, F): | 11.965 | 12.006 |
| Target Conc. (pCi/L, g, F): | 0.144 | 0.144 |
| Uncertainty (Calculated): | 13.428 | 13.119 |
| Result (pCi/L, g, F): | 1.279 | 1.252 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 2.23 | 1.73 |
| Numerical Performance Indicator: | 112.23% | 109.27% |
| Percent Recovery: | N/A | N/A |
| Status vs Numerical Indicator: | Pass | Pass |
| Upper % Recovery Limits: | 125% | 125% |
| Lower % Recovery Limits: | 75% | 75% |

| Duplicate Sample Assessment | |
|---|----------------|
| Sample I.D.: | 30515389061 |
| Duplicate Sample I.D.: | 30515389061DUP |
| Sample Result (pCi/L, g, F): | 0.502 |
| Duplicate Result (pCi/L, g, F): | 0.336 |
| Sample Duplicate Result (pCi/L, g, F): | 0.233 |
| Duplicate Duplicate Result (pCi/L, g, F): | 0.284 |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | 1.200 |
| Duplicate Percent Recoveries: | 73.28% |
| Duplicate Status vs Numerical Indicator: | N/A |
| Duplicate Status vs RPD: | Fail*** |
| % RPD Limit: | 25% |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|----------|
| Sample Collection Date: | 8/9/2022 | | |
| Sample I.D.: | 30515389073 | | |
| Sample MS I.D.: | 30515389074 | | |
| Sample MSD I.D.: | 30515389075 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 19-033 | | |
| Spike Volume Used in MS (mL): | 24.025 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.288 | | |
| MS Target Conc. (pCi/L, g, F): | 16.704 | | |
| MSD Aliquot (L, g, F): | 0.315 | | |
| MSD Target Conc. (pCi/L, g, F): | 15.239 | | |
| MS Spike Uncertainty (calculated): | 0.200 | | |
| MSD Spike Uncertainty (calculated): | 0.183 | | |
| Sample Result: | 0.019 | | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.124 | | |
| Sample Matrix Spike Result: | 18.966 | | |
| Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): | 1.328 | | |
| Sample Matrix Spike Duplicate Result: | 14.958 | | |
| Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): | 1.096 | | |
| MS Numerical Performance Indicator: | 3.260 | | |
| MSD Numerical Performance Indicator: | -0.526 | | |
| MS Percent Recovery: | 113.43% | | |
| MSD Percent Recovery: | 98.03% | | |
| MS Status vs Numerical Indicator: | N/A | | |
| MSD Status vs Numerical Indicator: | N/A | | |
| MS Status vs Recovery: | Pass | | |
| MSD Status vs Recovery: | Pass | | |
| MS/MSD Upper % Recovery Limits: | 125% | | |
| MS/MSD Lower % Recovery Limits: | 75% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30515389073 |
| Sample MS I.D.: | 30515389074 |
| Sample MSD I.D.: | 30515389075 |
| Matrix Spike Result: | 18.966 |
| Matrix Spike Duplicate Result: | 14.958 |
| Duplicate Numerical Performance Indicator: | 4.561 |
| Duplicate Percent Recoveries (MS/MSD Duplicate RPD): | 14.56% |
| Duplicate Status vs Numerical Indicator: | N/A |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Omega
 ***Batch must be re-assessing due to unacceptable precision N/A
 VAM
 9/20/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: RMS
Date: 9/9/2022
Worklist: 68696
Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|--------------|
| MB Sample ID | 2572299 |
| MB concentration: | 0.569 |
| MB Counting Uncertainty: | 0.340 |
| MB MDC: | 0.528 |
| MB Numerical Performance Indicator: | 3.29 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | See Comment* |

| Laboratory Control Sample Assessment | | LCS (Y or N)? | Y |
|---|-----------|---------------|-----------|
| Count Date: | 9/14/2022 | LCS068696 | 9/14/2022 |
| Spike I.D.: | 19-033 | | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.024 | | 24.024 |
| Volume Used (mL): | 0.10 | | 0.10 |
| Aliquot Volume (L, g, F): | 0.201 | | 0.203 |
| Target Conc. (pCi/L, g, F): | 11.937 | | 11.820 |
| Uncertainty (Calculated): | 0.143 | | 0.142 |
| Result (pCi/L, g, F): | 13.104 | | 12.057 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 1.364 | | 1.323 |
| Numerical Performance Indicator: | 1.67 | | 0.35 |
| Percent Recovery: | 109.78% | | 102.00% |
| Status vs Numerical Indicator: | N/A | | N/A |
| Status vs Recovery: | Pass | | Pass |
| Upper % Recovery Limits: | 125% | | 125% |
| Lower % Recovery Limits: | 75% | | 75% |

| Duplicate Sample Assessment | | LCS (Y or N)? | Y |
|---|----------------|---------------|----------------|
| Sample I.D.: | 30515389022 | | 30515389022 |
| Duplicate Sample I.D.: | 30515389022DUP | | 30515389022DUP |
| Duplicate Result (pCi/L, g, F): | 13.104 | | -0.028 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 1.364 | | 0.221 |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | 1.323 | | -0.171 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | NO | | 0.141 |
| Are sample and/or duplicate results below RL? | 1.068 | | See Below # |
| Duplicate Numerical Performance Indicator: | 7.34% | | -143.89% |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | N/A | | N/A |
| Duplicate Status vs Numerical Indicator: | Pass | | Pass |
| Duplicate Status vs RPD: | 25% | | 25% |
| % RPD Limit: | | | |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|----------|
| Sample Collection Date: | 7/27/2022 | | |
| Sample I.D.: | 30515389022 | | |
| Sample MS I.D.: | 30515389023 | | |
| Sample MSD I.D.: | 30515389024 | | |
| Spike I.D.: | 19-033 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.025 | | |
| Spike Volume Used in MS (mL): | 0.20 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.291 | | |
| MS Target Conc. (pCi/L, g, F): | 16.504 | | |
| MSD Aliquot (L, g, F): | 0.287 | | |
| MSD Target Conc. (pCi/L, g, F): | 16.732 | | |
| MS Spike Uncertainty (calculated): | 0.198 | | |
| MSD Spike Uncertainty (calculated): | 0.201 | | |
| MSD Numerical Performance Indicator: | -0.028 | | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 0.221 | | |
| Sample Matrix Spike Result: | 17.653 | | |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 1.356 | | |
| Sample Matrix Spike Duplicate Result: | 16.185 | | |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.302 | | |
| MS Numerical Performance Indicator: | 1.662 | | |
| MSD Numerical Performance Indicator: | -0.762 | | |
| MS Percent Recovery: | 107.13% | | |
| MSD Percent Recovery: | 96.89% | | |
| MS Status vs Numerical Indicator: | N/A | | |
| MSD Status vs Numerical Indicator: | N/A | | |
| MS Status vs Recovery: | Pass | | |
| MSD Status vs Recovery: | Pass | | |
| MS/MSD Upper % Recovery Limits: | 125% | | |
| MS/MSD Lower % Recovery Limits: | 75% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|----------|
| Sample I.D.: | 30515389022 | | |
| Sample MS I.D.: | 30515389023 | | |
| Sample MSD I.D.: | 30515389024 | | |
| Sample Matrix Spike Result: | 17.653 | | |
| Sample Matrix Spike Duplicate Result: | 1.356 | | |
| Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 16.185 | | |
| Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.302 | | |
| Duplicate Numerical Performance Indicator: | 1.531 | | |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 10.04% | | |
| MS/MSD Duplicate Status vs Numerical Indicator: | Pass | | |
| MS/MSD Duplicate Status vs RPD: | 25% | | |
| % RPD Limit: | | | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

[Handwritten Signature]

AM 9/15/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: RMS
Date: 9/6/2022
Worklist: 68697
Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2572300 |
| MB Concentration: | 0.066 |
| MB Counting Uncertainty: | 0.169 |
| MB MDC: | 0.409 |
| MB Numerical Performance Indicator: | 0.77 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCS (Y or N)? | Y |
|---|-----------|---------------|-----------|
| Count Date: | 9/19/2022 | LCS68697 | 9/20/2022 |
| Spike I.D.: | 19-033 | | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.024 | | 24.024 |
| Volume Used (mL): | 0.10 | | 0.10 |
| Aliquot Volume (L, g, F): | 0.202 | | 0.201 |
| Target Conc. (pCi/L, g, F): | 11.889 | | 11.979 |
| Uncertainty (Calculated): | 0.143 | | 0.144 |
| Result (pCi/L, g, F): | 11.961 | | 12.133 |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 1.178 | | 1.216 |
| Numerical Performance Indicator: | 0.12 | | 0.25 |
| Percent Recovery: | 100.61% | | 101.28% |
| Status vs Numerical Indicator: | N/A | | N/A |
| Status vs Recovery: | Pass | | Pass |
| Upper % Recovery Limits: | 125% | | 125% |
| Lower % Recovery Limits: | 75% | | 75% |

| Duplicate Sample Assessment | | LCS (Y or N)? | Y |
|---|-------------|---------------|--------------|
| Sample I.D.: | 30515389050 | LCS68697 | 30515389050 |
| Duplicate Sample I.D.: | 30515389050 | | 30515389050 |
| Sample Result (pCi/L, g, F): | 0.644 | | 0.644 |
| Sample Duplicate Result (pCi/L, g, F): | 0.380 | | 0.380 |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | 0.407 | | 0.407 |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.803 | | 0.803 |
| Are sample and/or duplicate results below RL? (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | NO | | See Below ## |
| Duplicate Numerical Performance Indicator: | 0.142 | | 0.142 |
| Duplicate Status vs Numerical Indicator: | 0.67% | | 6.49% |
| Duplicate Status vs RPD: | N/A | | N/A |
| % RPD Limit: | 25% | | 25% |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|-------------|----------|----------|
| Sample Collection Date: | 7/26/2022 | | |
| Sample I.D.: | 30515389033 | | |
| Sample MS I.D.: | 30515389034 | | |
| Sample MSD I.D.: | 30515389035 | | |
| Spike I.D.: | 19-033 | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 24.025 | | |
| Spike Volume Used in MS (mL): | 0.20 | | |
| Spike Volume Used in MSD (mL): | 0.20 | | |
| MS Aliquot (L, g, F): | 0.201 | | |
| MS Target Conc. (pCi/L, g, F): | 23.847 | | |
| MSD Aliquot (L, g, F): | 0.203 | | |
| MSD Target Conc. (pCi/L, g, F): | 23.629 | | |
| MS Spike Uncertainty (calculated): | 0.286 | | |
| MSD Spike Uncertainty (calculated): | 0.284 | | |
| Sample Result: | 0.188 | | |
| Sample Matrix Spike Result: | 23.953 | | |
| Matrix Spike Counting Uncertainty (pCi/L, g, F): | 1.681 | | |
| Sample Matrix Spike Duplicate Result: | 23.350 | | |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 1.629 | | |
| MS Numerical Performance Indicator: | -0.094 | | |
| MSD Numerical Performance Indicator: | -0.551 | | |
| MS Percent Recovery: | 99.66% | | |
| MSD Percent Recovery: | 98.02% | | |
| MS Status vs Numerical Indicator: | N/A | | |
| MSD Status vs Numerical Indicator: | N/A | | |
| MS Status vs Recovery: | Pass | | |
| MSD Status vs Recovery: | Pass | | |
| MS/MSD Upper % Recovery Limits: | 125% | | |
| MS/MSD Lower % Recovery Limits: | 75% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30515389033 |
| Sample MS I.D.: | 30515389034 |
| Sample MSD I.D.: | 30515389035 |
| Matrix Spike Result: | 23.953 |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 1.681 |
| Sample Matrix Spike Duplicate Result: | 23.350 |
| Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): | 1.629 |
| Duplicate Numerical Performance Indicator: | 0.506 |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 1.65% |
| MS/MSD Duplicate Status vs Numerical Indicator: | N/A |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Signature

VAM 9/20/22

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: VAL
Date: 8/26/2022
Worklist: 68504
Matrix: WT

| | |
|-------------------------------------|--------------|
| Method Blank Assessment | |
| MB Sample ID | 2560854 |
| MB concentration: | 1.000 |
| M/B 2 Sigma CSU: | 0.462 |
| MB MDC: | 0.761 |
| MB Numerical Performance Indicator: | 4.24 |
| MB Status vs Numerical Indicator: | Fail* |
| MB Status vs. MDC: | See Comment* |

| Laboratory Control Sample Assessment | LCSID (Y or N)? | |
|---|-----------------|----------|
| | LCS68504 | LCS68504 |
| Count Date: | 9/13/2022 | |
| Spike I.D.: | 22-016 | |
| Decay Corrected Spike Concentration (pCi/mL): | 34.343 | |
| Volume Used (mL): | 0.10 | |
| Aliquot Volume (L, g, F): | 0.806 | |
| Target Conc. (pCi/L, g, F): | 4.260 | |
| Uncertainty (Calculated): | 0.209 | |
| Result (pCi/L, g, F): | 3.308 | |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.855 | |
| Numerical Performance Indicator: | -2.12 | |
| Percent Recovery: | 77.64% | |
| Status vs Numerical Indicator: | N/A | |
| Upper % Recovery Limits: | 135% | |
| Lower % Recovery Limits: | 60% | |

| | |
|--|---|
| Duplicate Sample Assessment | |
| Sample I.D.: | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D.: | |
| Sample Result (pCi/L, g, F): | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

On 9/14

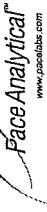
OK

8/29/22

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|
| Sample Collection Date: | 7/26/2022 | |
| Sample I.D.: | 30515389033 | |
| Sample MS I.D.: | 30515389034 | |
| Sample MSD I.D.: | 30515389035 | |
| Spike I.D.: | 22-016 | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 34.904 | |
| Spike Volume Used in MS (mL): | 0.20 | |
| Spike Volume Used in MSD (mL): | 0.20 | |
| MS Aliquot (L, g, F): | 0.810 | |
| MS Target Conc. (pCi/L, g, F): | 8.619 | |
| MSD Aliquot (L, g, F): | 0.810 | |
| MSD Target Conc. (pCi/L, g, F): | 8.613 | |
| MS Spike Uncertainty (calculated): | 0.422 | |
| MSD Spike Uncertainty (calculated): | 0.422 | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.035 | |
| Sample Matrix Spike Result: | 11.496 | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 2.283 | |
| Sample Matrix Spike Duplicate Result: | 9.409 | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.899 | |
| MS Numerical Performance Indicator: | 2.379 | |
| MSD Numerical Performance Indicator: | 0.757 | |
| MS Percent Recovery: | 132.97% | |
| MSD Percent Recovery: | 108.63% | |
| MS Status vs Numerical Indicator: | Warning | |
| MSD Status vs Numerical Indicator: | Pass | |
| MS Status vs Recovery: | Pass | |
| MSD Status vs Recovery: | Pass | |
| MS/MSD Upper % Recovery Limits: | 135% | |
| MS/MSD Lower % Recovery Limits: | 60% | |

| | |
|---|-------------|
| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
| Sample I.D.: | 30515389033 |
| Sample MS I.D.: | 30515389034 |
| Sample MSD I.D.: | 30515389035 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 11.496 |
| Sample Matrix Spike Duplicate Result: | 2.283 |
| Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 9.409 |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.899 |
| Duplicate Numerical Performance Indicator: | 1.378 |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | 19.97% |
| MS/MSD Duplicate Status vs Numerical Indicator: | Pass |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: VAL
Date: 8/26/2022
Worklist: 68510
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2561046 |
| MB concentration: | 0.161 |
| M/B 2 Sigma CSU: | 0.326 |
| MB MDC: | 0.717 |
| MB Numerical Performance Indicator: | 0.97 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCSD (Y or N)? | N |
|---|-----------|----------------|-----------|
| Count Date: | 9/19/2022 | LCSD68510 | LCSD68510 |
| Spike I.D.: | 22-016 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 34.309 | | |
| Volume Used (mL): | 0.10 | | |
| Aliquot Volume (L, g, F): | 0.806 | | |
| Target Conc. (pCi/L, g, F): | 4.259 | | |
| Uncertainty (Calculated): | 0.209 | | |
| Result (pCi/L, g, F): | 2.613 | | |
| LCSD/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.708 | | |
| Numerical Performance Indicator: | -4.37 | | |
| Percent Recovery: | 61.36% | | |
| Status vs Numerical Indicator: | N/A | | |
| Status vs Recovery: | Pass | | |
| Upper % Recovery Limits: | 135% | | |
| Lower % Recovery Limits: | 60% | | |

| Duplicate Sample Assessment | |
|--|---|
| Sample I.D.: | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D.: | |
| Sample Result (pCi/L, g, F): | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|--|-------------|----------|
| Sample Collection Date: | 8/9/2022 | |
| Sample I.D.: | 30515389073 | |
| Sample MS I.D.: | 30515389074 | |
| Sample MSD I.D.: | 30515389075 | |
| Spike I.D.: | 22-016 | |
| Spike I.D.: | 34.743 | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 0.20 | |
| Spike Volume Used in MS (mL): | 0.20 | |
| Spike Volume Used in MSD (mL): | 0.810 | |
| MS Aliquot (L, g, F): | 8.578 | |
| MS Target Conc. (pCi/L, g, F): | 0.807 | |
| MSD Aliquot (L, g, F): | 8.611 | |
| MSD Target Conc. (pCi/L, g, F): | 0.420 | |
| MS Spike Uncertainty (calculated): | 0.422 | |
| MSD Spike Uncertainty (calculated): | 0.462 | |
| Sample Result: | 0.393 | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 7.879 | |
| Sample Matrix Spike Result: | 1.594 | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 6.047 | |
| Sample Matrix Spike Duplicate Result: | 1.324 | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | -1.573 | |
| MS Numerical Performance Indicator: | 84.14% | |
| MSD Numerical Performance Indicator: | 64.86% | |
| MS Percent Recovery: | Pass | |
| MSD Percent Recovery: | Fail**** | |
| MS Status vs Numerical Indicator: | Pass | |
| MSD Status vs Numerical Indicator: | Pass | |
| MS Status vs Recovery: | Pass | |
| MSD Status vs Recovery: | Pass | |
| MS/MSD Upper % Recovery Limits: | 135% | |
| MS/MSD Lower % Recovery Limits: | 60% | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30515389073 |
| Sample MS I.D.: | 30515389074 |
| Sample MSD I.D.: | 30515389075 |
| Sample Matrix Spike Result: | 7.879 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 1.594 |
| Sample Matrix Spike Duplicate Result: | 6.047 |
| Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.324 |
| Matrix Spike Duplicate Numerical Performance Indicator: | 1.544 |
| Duplicate Numerical Performance Indicator: | 25.88% |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | Pass |
| MS/MSD Duplicate Status vs Numerical Indicator: | Pass |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

WAM 9/19/22

Oma/Hak

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative



Gorgas Ash Pond

2022 MNA Event 1

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Analytical requests from Anchor Environmental, as part of the site-specific treatability study, requested dissolved analysis for all samples collected by APC Environmental Affairs personnel. Thus, samples were field filtered regardless of NTU levels.

Turbidity levels less than 10 NTU were not able to be achieved after extended pumping for wells MW-7.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verifications for all required field parameters were performed daily, before and after sample collection.

**Field Parameter Summary
2022 SA02 MNA Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 9:47 | 556.99 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 9:47 | 0.74 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 9:47 | 11.08 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 9:47 | -170.76 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 9:47 | 7.14 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 9:47 | 20.06 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 9:47 | 2.44 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 9:52 | 557.13 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 9:52 | 0.6 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 9:52 | 11.12 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 9:52 | -164.19 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 9:52 | 7.11 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 9:52 | 19.93 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 9:52 | 2.35 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 9:57 | 557.1 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 9:57 | 0.55 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 9:57 | 11.16 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 9:57 | -159.97 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 9:57 | 7.1 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 9:57 | 19.89 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 9:57 | 5.74 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:02 | 556.34 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:02 | 0.53 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:02 | 11.18 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:02 | -156.56 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:02 | 7.09 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:02 | 19.78 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:02 | 11.09 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:07 | 556.22 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:07 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:07 | 11.21 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:07 | -154.39 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:07 | 7.08 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:07 | 19.82 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:07 | 9.16 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:12 | 555.37 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:12 | 0.5 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:12 | 11.23 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:12 | -152.28 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:12 | 7.08 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:12 | 19.74 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:12 | 9.32 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:17 | 555.09 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:17 | 0.5 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:17 | 11.27 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:17 | -150.94 | mv |

**Field Parameter Summary
2022 SA02 MNA Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:17 | 7.08 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:17 | 19.91 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:17 | 10.49 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:22 | 554.9 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:22 | 0.5 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:22 | 11.29 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:22 | -150.05 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:22 | 7.09 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:22 | 19.88 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:22 | 10.21 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:27 | 553.87 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:27 | 0.5 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:27 | 11.32 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:27 | -150.2 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:27 | 7.11 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:27 | 19.91 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:27 | 10.75 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:32 | 553.72 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:32 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:32 | 11.32 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:32 | -150.48 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:32 | 7.13 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:32 | 19.91 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:32 | 10.88 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:37 | 554.43 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:37 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:37 | 11.34 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:37 | -151.54 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:37 | 7.16 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:37 | 19.87 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:37 | 10.92 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:42 | 553.25 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:42 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:42 | 11.35 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:42 | -152.55 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:42 | 7.19 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:42 | 19.82 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:42 | 11.74 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:47 | 553.04 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:47 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:47 | 11.36 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:47 | -154.16 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:47 | 7.23 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:47 | 19.97 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:47 | 12.8 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:52 | 552.07 | uS/cm |

**Field Parameter Summary
2022 SA02 MNA Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:52 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:52 | 11.36 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:52 | -156.8 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:52 | 7.28 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:52 | 20.07 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:52 | 11.41 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 10:57 | 551.34 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 10:57 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 10:57 | 11.37 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 10:57 | -159.09 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 10:57 | 7.33 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 10:57 | 19.94 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 10:57 | 11.88 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:02 | 551.81 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:02 | 0.5 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:02 | 11.37 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:02 | -161.38 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:02 | 7.39 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:02 | 19.95 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:02 | 12.14 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:07 | 550.92 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:07 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:07 | 11.39 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:07 | -163.86 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:07 | 7.44 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:07 | 19.98 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:07 | 11.2 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:12 | 552.47 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:12 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:12 | 11.4 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:12 | -166.12 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:12 | 7.48 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:12 | 20.02 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:12 | 10.66 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:17 | 549.9 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:17 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:17 | 11.42 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:17 | -168.08 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:17 | 7.52 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:17 | 19.83 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:17 | 11.24 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:22 | 550.92 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:22 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:22 | 11.44 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:22 | -169.8 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:22 | 7.55 | SU |

**Field Parameter Summary
2022 SA02 MNA Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:22 | 20.01 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:22 | 10.27 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:27 | 550.15 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:27 | 0.51 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:27 | 11.45 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:27 | -171.09 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:27 | 7.57 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:27 | 19.96 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:27 | 11.2 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:32 | 550.95 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:32 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:32 | 11.46 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:32 | -172.27 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:32 | 7.6 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:32 | 19.81 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:32 | 10.18 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:37 | 549.8 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:37 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:37 | 11.46 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:37 | -173.59 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:37 | 7.63 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:37 | 19.88 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:37 | 11.61 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:42 | 550.26 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:42 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:42 | 11.47 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:42 | -173.65 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:42 | 7.63 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:42 | 20.03 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:42 | 10.23 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:47 | 549.15 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:47 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:47 | 11.48 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:47 | -173.87 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:47 | 7.64 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:47 | 20.03 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:47 | 12.96 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:52 | 549.68 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:52 | 0.52 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:52 | 11.49 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:52 | -173.81 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:52 | 7.64 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:52 | 19.88 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:52 | 10.31 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 11:57 | 549.38 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 11:57 | 0.52 | mg/L |

**Field Parameter Summary
2022 SA02 MNA Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 11:57 | 11.51 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 11:57 | -173.55 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 11:57 | 7.64 | SU |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 11:57 | 19.73 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 11:57 | 10.55 | NTU |
| GS-AP-MW-7 | COND | Conductivity | 7/25/2022 12:02 | 549.15 | uS/cm |
| GS-AP-MW-7 | DO | DO | 7/25/2022 12:02 | 0.53 | mg/L |
| GS-AP-MW-7 | DTW | Depth to Water Detail | 7/25/2022 12:02 | 11.52 | ft |
| GS-AP-MW-7 | ORP | Oxidation Reduction Potention | 7/25/2022 12:02 | -173.08 | mv |
| GS-AP-MW-7 | PH | pH | 7/25/2022 12:02 | 7.64 | SU |
| GS-AP-MW-7 | SULFIDE | Sulfide | 7/25/2022 12:02 | 0 | mg/L |
| GS-AP-MW-7 | TEMP | Temperature | 7/25/2022 12:02 | 19.92 | C |
| GS-AP-MW-7 | TURB | Turbidity | 7/25/2022 12:02 | 10.17 | NTU |

**Field Parameter Summary
2022 SA02 MNA Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|-------------|-----------|-------------------------------|-----------------|--------|-------|
| GS-AP-MW-6D | COND | Conductivity | 7/25/2022 11:22 | 455.03 | uS/cm |
| GS-AP-MW-6D | DO | DO | 7/25/2022 11:22 | 0.11 | mg/L |
| GS-AP-MW-6D | DTW | Depth to Water Detail | 7/25/2022 11:22 | 11.72 | ft |
| GS-AP-MW-6D | ORP | Oxidation Reduction Potention | 7/25/2022 11:22 | 4.74 | mv |
| GS-AP-MW-6D | PH | pH | 7/25/2022 11:22 | 6.96 | SU |
| GS-AP-MW-6D | TEMP | Temperature | 7/25/2022 11:22 | 19.67 | C |
| GS-AP-MW-6D | TURB | Turbidity | 7/25/2022 11:22 | 0.36 | NTU |
| GS-AP-MW-6D | COND | Conductivity | 7/25/2022 11:27 | 455.45 | uS/cm |
| GS-AP-MW-6D | DO | DO | 7/25/2022 11:27 | 0.1 | mg/L |
| GS-AP-MW-6D | DTW | Depth to Water Detail | 7/25/2022 11:27 | 11.78 | ft |
| GS-AP-MW-6D | ORP | Oxidation Reduction Potention | 7/25/2022 11:27 | -11.4 | mv |
| GS-AP-MW-6D | PH | pH | 7/25/2022 11:27 | 6.92 | SU |
| GS-AP-MW-6D | TEMP | Temperature | 7/25/2022 11:27 | 19.53 | C |
| GS-AP-MW-6D | TURB | Turbidity | 7/25/2022 11:27 | 0.77 | NTU |
| GS-AP-MW-6D | COND | Conductivity | 7/25/2022 11:32 | 456.17 | uS/cm |
| GS-AP-MW-6D | DO | DO | 7/25/2022 11:32 | 0.1 | mg/L |
| GS-AP-MW-6D | DTW | Depth to Water Detail | 7/25/2022 11:32 | 11.79 | ft |
| GS-AP-MW-6D | ORP | Oxidation Reduction Potention | 7/25/2022 11:32 | -28.17 | mv |
| GS-AP-MW-6D | PH | pH | 7/25/2022 11:32 | 6.93 | SU |
| GS-AP-MW-6D | TEMP | Temperature | 7/25/2022 11:32 | 19.58 | C |
| GS-AP-MW-6D | TURB | Turbidity | 7/25/2022 11:32 | 0.22 | NTU |
| GS-AP-MW-6D | COND | Conductivity | 7/25/2022 11:37 | 456.88 | uS/cm |
| GS-AP-MW-6D | DO | DO | 7/25/2022 11:37 | 0.1 | mg/L |
| GS-AP-MW-6D | DTW | Depth to Water Detail | 7/25/2022 11:37 | 11.79 | ft |
| GS-AP-MW-6D | ORP | Oxidation Reduction Potention | 7/25/2022 11:37 | -45.12 | mv |
| GS-AP-MW-6D | PH | pH | 7/25/2022 11:37 | 6.95 | SU |
| GS-AP-MW-6D | SULFIDE | Sulfide | 7/25/2022 11:37 | 3 | mg/L |
| GS-AP-MW-6D | TEMP | Temperature | 7/25/2022 11:37 | 19.55 | C |
| GS-AP-MW-6D | TURB | Turbidity | 7/25/2022 11:37 | 0.35 | NTU |

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWGORAP_1380

Project/Site : Gorgas Ash Pond
Parrish, AL 35580

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Renee Jernigan
rgarner@southernco.com
(205) 664-6247

August 23, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on July 28, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2023

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Renee
Jernigan**

Digitally signed by Renee
Jernigan
Date: 2022.08.23
10:06:06 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske,
c=US, United States, fo=US, United States,
email=tmask@scouthernco.com
Reason: I am the author of this document
Location:
Date: 2022-08-23 11:05:05-00



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Dissolved Mercury

Gorgas Ash Pond

WMWGORAP_1380

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC14076 | 732776 | WMWGORAP_1380 |
| BC14077 | 732776 | WMWGORAP_1380 |

4. All of the above samples were analyzed and prepared by EPA 245.1 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- Due to no filtered method blank (MB) and laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met, except for the following:
 - BC14077 matrix spike recovery was outside of the specification limit.

Case Narrative

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met, except for the following:
 - BC14077 matrix spike and matrix spike duplicate precision was outside of the specification limit.
- 7. All samples were analyzed without a dilution factor.

Case Narrative

Total Dissolved Solids

Gorgas Ash Pond

WMWGORAP_1380

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC14076 | 734297 | WMWGORAP_1380 |
| BC14077 | 732061 | WMWGORAP_1380 |

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.

Anions

Gorgas Ash Pond

WMWGORAP_1380

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|----------------------|-------------------|
| BC14076 | 733200,733194,732790 | WMWGORAP_1380 |
| BC14077 | 733200,733194,732790 | WMWGORAP_1380 |

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

Case Narrative

7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC14076 | Sulfate | 8 |
| BC14077 | Sulfate | 5 |

8. The raw data results are shown with dilution factors included.

Case Narrative

Alkalinity

Gorgas Ash Pond

WMWGORAP_1380

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC14076 | 732660; 732661 | WMWGORAP_1380 |
| BC14077 | 732660; 732661 | WMWGORAP_1380 |

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Nitrate-Nitrite

Gorgas Ash Pond

WMWGORAP_1380

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC14076 | 732122 | WMWGORAP_1380 |
| BC14077 | 732122 | WMWGORAP_1380 |

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Gorgas Ash Pond

WMWGORAP_1380

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC14076 | 732678 | WMWGORAP_1380 |
| BC14077 | 732678 | WMWGORAP_1380 |

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-7 DIS

Location Code: WMWGORAP
Collected: 7/25/22 12:05
Customer ID:
Submittal Date: 7/28/22 10:37

Laboratory ID Number: BC14076

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-----------|--------|--------|----|
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Dissolved by CVAA | 8/10/22 10:40 | 8/10/22 14:34 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 16:24 | 7/28/22 16:24 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:35 | 8/1/22 13:12 | | 1 | 111 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:02 | 8/2/22 13:20 | | 1 | 299 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:35 | 8/1/22 13:12 | | 1 | 110 | mg/L | | 1 | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:35 | 8/1/22 13:12 | | 1 | 0.88 | mg/L | | 0.5 | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 01:04 | 8/4/22 01:04 | | 1 | 1.04 | mg/L | 1.00 | 2 | J |
| Analytical Method: SM4500Cl E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:51 | 8/8/22 11:51 | | 1 | 8.14 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 15:14 | 8/8/22 15:14 | | 1 | 0.0865 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 12:02 | 8/4/22 12:02 | | 8 | 140 | mg/L | 4.8 | 16 | |
| Analytical Method: Field Measurements | | Analyst: DKG | | | | | | | |
| Conductivity | 7/25/22 12:02 | 7/25/22 12:02 | | | 549.15 | uS/cm | | | FA |
| pH | 7/25/22 12:02 | 7/25/22 12:02 | | | 7.64 | SU | | | FA |
| Temperature | 7/25/22 12:02 | 7/25/22 12:02 | | | 19.92 | C | | | FA |
| Turbidity | 7/25/22 12:02 | 7/25/22 12:02 | | | 10.17 | NTU | | | FA |
| Sulfide | 7/25/22 12:02 | 7/25/22 12:02 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 12:05

Customer ID:

Delivery Date: 7/28/22 10:37

Description: Gorgas Ash Pond - MW-7 DIS

Laboratory ID Number: BC14076

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|-----------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14077 | Chloride | mg/L | -0.0222 | 1.00 | 10.0 | 21.3 | 21.2 | 10.0 | 9.00 to 11.0 | 117 | 80.0 to 120 | 0.471 | 20.0 |
| BC14077 | Fluoride | mg/L | -0.0272 | 0.125 | 2.50 | 2.84 | 2.81 | 2.75 | 2.25 to 2.75 | 110 | 80.0 to 120 | 1.06 | 20.0 |
| BC14077 | Mercury, Dissolved by | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00554 | 0.00358 | 0.00372 | 0.00340 to 0.00460 | 138 | 70.0 to 130 | 43.0 | 20.0 |
| BC14077 | Sulfate | mg/L | -0.264 | 2.0 | 100 | 157 | 167 | 19.8 | 18.0 to 22.0 | 99.3 | 80.0 to 120 | 6.17 | 20.0 |
| BC14077 | Total Organic Carbon | mg/L | 0.252 | 1.00 | 10.0 | 11.6 | 11.2 | 25.2 | | 102 | 80.0 to 120 | 3.51 | 20.0 |

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 12:05

Customer ID:

Delivery Date: 7/28/22 10:37

Description: Gorgas Ash Pond - MW-7 DIS

Laboratory ID Number: BC14076

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Limit | Prec | Limit |
|---------|---------------------------|------------|------|-------------|-------|------|---------------------|----------|-------------------|-----|-------------|------|-------|
| BC14076 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 119 | 50.8 | 45.0 to 55.0 | | | 6.96 | 10.0 |
| BC14077 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.07 | -0.010 | 1.87 | 1.80 to 2.20 | 104 | 90.0 to 110 | 0.00 | 15.0 |
| BC14076 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | | 50 | 40.0 to 60.0 | | | | 10.0 |

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-6D DIS

Location Code: WMWGORAP
Collected: 7/25/22 11:40
Customer ID:
Submittal Date: 7/28/22 10:37

Laboratory ID Number: BC14077

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-----------|--------|--------|----|
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Dissolved by CVAA | 8/10/22 10:40 | 8/10/22 14:48 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 17:23 | 7/28/22 17:23 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity to pH 4.5 | 8/1/22 12:35 | 8/1/22 13:12 | | 1 | 206 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/28/22 14:37 | 8/2/22 12:45 | | 1 | 282 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 8/1/22 12:35 | 8/1/22 13:12 | | 1 | 205 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 8/1/22 12:35 | 8/1/22 13:12 | | 1 | 1.33 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/4/22 13:38 | 8/4/22 13:38 | | 1 | 1.45 | mg/L | 1.00 | 2 | J |
| Analytical Method: SM4500CI E | | Analyst: JCC | | | | | | | |
| * Chloride | 8/8/22 11:52 | 8/8/22 11:52 | | 1 | 9.59 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 15:15 | 8/8/22 15:15 | | 1 | 0.0967 | mg/L | 0.06 | 0.125 | J |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 12:03 | 8/4/22 12:03 | | 5 | 57.7 | mg/L | 3.0 | 10 | |
| Analytical Method: Field Measurements | | Analyst: TJD | | | | | | | |
| Conductivity | 7/25/22 11:37 | 7/25/22 11:37 | | | 456.88 | uS/cm | | | FA |
| pH | 7/25/22 11:37 | 7/25/22 11:37 | | | 6.95 | SU | | | FA |
| Temperature | 7/25/22 11:37 | 7/25/22 11:37 | | | 19.55 | C | | | FA |
| Turbidity | 7/25/22 11:37 | 7/25/22 11:37 | | | 0.35 | NTU | | | FA |
| Sulfide | 7/25/22 11:37 | 7/25/22 11:37 | | | 3 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.
 Matrix spike recovery was outside of the specification limit.
 Matrix spike and matrix spike duplicate precision was outside of the specification limit.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 7/25/22 11:40
Customer ID:
Delivery Date: 7/28/22 10:37

Description: Gorgas Ash Pond - MW-6D DIS

Laboratory ID Number: BC14077

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|-----------------------|-------|-----------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC14077 | Chloride | mg/L | -0.0222 | 1.00 | 10.0 | 21.3 | 21.2 | 10.0 | 9.00 to 11.0 | 117 | 80.0 to 120 | 0.471 | 20.0 |
| BC14077 | Fluoride | mg/L | -0.0272 | 0.125 | 2.50 | 2.84 | 2.81 | 2.75 | 2.25 to 2.75 | 110 | 80.0 to 120 | 1.06 | 20.0 |
| BC14077 | Mercury, Dissolved by | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00554 | 0.00358 | 0.00372 | 0.00340 to 0.00460 | 138 | 70.0 to 130 | 43.0 | 20.0 |
| BC14077 | Sulfate | mg/L | -0.264 | 2.0 | 100 | 157 | 167 | 19.8 | 18.0 to 22.0 | 99.3 | 80.0 to 120 | 6.17 | 20.0 |
| BC14077 | Total Organic Carbon | mg/L | 0.252 | 1.00 | 10.0 | 11.6 | 11.2 | 25.2 | | 102 | 80.0 to 120 | 3.51 | 20.0 |

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.
 Matrix spike recovery was outside of the specification limit.
 Matrix spike and matrix spike duplicate precision was outside of the specification limit.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 11:40

Customer ID:

Delivery Date: 7/28/22 10:37

Description: Gorgas Ash Pond - MW-6D DIS

Laboratory ID Number: BC14077

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|------------|------|----------|-------|------|------------------|----------|----------------|-----|-------------|-------|------------|
| BC14076 | Alkalinity to pH 4.5 | mg CaCO3/L | | | | | 119 | 50.8 | 45.0 to 55.0 | | | 6.96 | 10.0 |
| BC14077 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.02 | 0.200 | 2.00 | 2.07 | -0.010 | 1.87 | 1.80 to 2.20 | 104 | 90.0 to 110 | 0.00 | 15.0 |
| BC14077 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 284 | 49.0 | 40.0 to 60.0 | | | 0.707 | 10.0 |

Comments: The sample submitted was field filtered, all analyses are qualified as such.
 Filtered LCS and MB were not submitted or analyzed.
 Matrix spike recovery was outside of the specification limit.
 Matrix spike and matrix spike duplicate precision was outside of the specification limit.

Definitions

Project Number: WMWGORAP_1380

| Abbreviation | Description |
|--------------|---|
| DF | Dilution Factor |
| LCS | Lab Control Sample |
| LFM | Lab Fortified Matrix |
| MB | Method Blank |
| MDL | Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero. |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| Prec | Precision (% RPD) |
| Q | Qualifier; comment used to note deviations or additional information associated with analytical results. |
| QC | Quality Control |
| Rec | Recovery of Matrix Spike |
| RL | Reporting Limit; lowest concentration at which an analyte can be quantitatively measured. |
| Vio Spec | Violation Specification; regulatory limit which has been exceeded by the sample analyzed. |

| Qualifier | Description |
|-----------|--|
| FA | Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative. |
| J | Reported value is an estimate because concentration is less than reporting limit. |
| U | Compound was analyzed, but not detected. |



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|--------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Dallas Gentry | | Requested By: Greg Dyer |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | | | | | |
|---------|---|----------------------|--------|---|----------------|--------|---|-----|-----|---|-----|-----|
| Bottles | 1 | Hg | 250 mL | 3 | TDS/Alkalinity | 500 mL | 5 | N/A | N/A | 7 | N/A | N/A |
| | 2 | Nitrate/Nitrite; TOC | 250 mL | 4 | Anions | 250 mL | 6 | N/A | N/A | 8 | N/A | N/A |

Comments: Collected as part of treatability study with Anchor QEA

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|----------|------------|-------|--------------|----------------|------------|---------|
| MW-7 DIS | 07/25/2022 | 12:05 | 4 | Field Filtered | | BC14076 |
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| Relinquished By | Received By | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 07/28/2022 07:57 |
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|--------------|----------------|-----------------------------------|-------------------------------------|
| SmarTroll ID | 7586-41444-5-3 | All pH requirements have been met | <input checked="" type="checkbox"/> |
| Turbidity ID | 3901-20010-2-2 | Cooler Temp | 1.1 °C |
| Sample Event | 1380 | Thermometer ID | 7044-38282-2-2 |
| | | pH Strip ID | 10275-59506-10-2 |

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody
Groundwater
 APC General Testing Laboratory

Field Complete
 Outside Lab
 Lab Complete

Lab ETA

| | | | |
|-------------------------|--------------|--------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| Collector | TJ Daugherty | Requested By | Greg Dyer |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | |
|---------|------------------------|--------|------------------|--------|-------|-----|-------|-----|
| Bottles | 1 Hg | 250 mL | 3 TDS/Alkalinity | 500 mL | 5 N/A | N/A | 7 N/A | N/A |
| | 2 Nitrate/Nitrite, TOC | 250 mL | 4 Anions | 250 mL | 6 N/A | N/A | 8 N/A | N/A |

Comments

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|-----------|------------|-------|--------------|----------------|------------|---------|
| MW-6D Dis | 07/25/2022 | 11:40 | 4 | Field Filtered | | BC14077 |
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| Relinquished By | Received By | Date/Time |
| | | 07/28/2022 08:35 |
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|----------------|------------------|---|
| SmarTroll ID | 7586-41446-5-5 | All pH requirements have been met <input checked="" type="checkbox"/> |
| Turbidity ID | 4677-23343-4-2 | |
| Sample Event | 1380 | |
| Cooler Temp | 1.5 °C | |
| Thermometer ID | 7044-38282-2-2 | |
| pH Strip ID | 10275-59506-10-2 | |

Bottles/Pre-Preserved Bottles are provided by the GTL
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative



Gorgas Ash Pond

MW-33HO, MW-34HO & MW-35HO 2022 Event 2

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

**Field Parameters Summary
2022 SA02 Offsite Sampling Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 10:46 | 540.9 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 10:46 | 0.85 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 10:46 | 257.31 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 10:46 | -156.95 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 10:46 | 7.31 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 10:46 | 21.42 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 10:46 | 1.61 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 10:51 | 506.54 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 10:51 | 0.71 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 10:51 | 258.61 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 10:51 | -174.58 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 10:51 | 7.48 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 10:51 | 21.59 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 10:51 | 1.3 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 10:56 | 503.69 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 10:56 | 0.69 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 10:56 | 259.05 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 10:56 | -180.71 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 10:56 | 7.53 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 10:56 | 22.18 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 10:56 | 1.58 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 11:01 | 500.06 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 11:01 | 0.8 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 11:01 | 259.65 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 11:01 | -181.05 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 11:01 | 7.5 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 11:01 | 22.25 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 11:01 | 1.31 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 11:06 | 497.58 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 11:06 | 0.87 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 11:06 | 259.9 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 11:06 | -179.43 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 11:06 | 7.44 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 11:06 | 23.04 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 11:06 | 1.28 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 11:11 | 493.04 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 11:11 | 0.85 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 11:11 | 260.4 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 11:11 | -182.69 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 11:11 | 7.41 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 11:11 | 22.89 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 11:11 | 1.22 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 11:16 | 491.63 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 11:16 | 0.85 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 11:16 | 260.68 | ft |

**Field Parameters Summary
2022 SA02 Offsite Sampling Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 11:16 | -178.76 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 11:16 | 7.43 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 11:16 | 23.62 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 11:16 | 1.79 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 11:21 | 488.98 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 11:21 | 0.7 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 11:21 | 261.05 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 11:21 | -186.41 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 11:21 | 7.47 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 11:21 | 22.47 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 11:21 | 1.19 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 11:26 | 482.55 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 11:26 | 0.59 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 11:26 | 261.51 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 11:26 | -183.32 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 11:26 | 7.34 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 11:26 | 22.15 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 11:26 | 1.75 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 11:31 | 479.13 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 11:31 | 0.62 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 11:31 | 262.05 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 11:31 | -190.46 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 11:31 | 7.43 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 11:31 | 22.23 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 11:31 | 1.22 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 11:36 | 471.46 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 11:36 | 0.59 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 11:36 | 262.4 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 11:36 | -188.91 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 11:36 | 7.4 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 11:36 | 22.14 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 11:36 | 1.12 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 11:41 | 466.35 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 11:41 | 0.59 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 11:41 | 262.46 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 11:41 | -194.58 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 11:41 | 7.45 | SU |
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 11:41 | 21.77 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 11:41 | 1.3 | NTU |
| GS-AP-MW-33HO | COND | Conductivity | 7/26/2022 11:46 | 456.21 | uS/cm |
| GS-AP-MW-33HO | DO | DO | 7/26/2022 11:46 | 0.6 | mg/L |
| GS-AP-MW-33HO | DTW | Depth to Water Detail | 7/26/2022 11:46 | 262.6 | ft |
| GS-AP-MW-33HO | ORP | Oxidation Reduction Potention | 7/26/2022 11:46 | -193.62 | mv |
| GS-AP-MW-33HO | PH | pH | 7/26/2022 11:46 | 7.43 | SU |
| GS-AP-MW-33HO | SULFIDE | Sulfide | 7/26/2022 11:46 | 2 | mg/L |

**Field Parameters Summary
2022 SA02 Offsite Sampling Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-33HO | TEMP | Temperature | 7/26/2022 11:46 | 21.65 | C |
| GS-AP-MW-33HO | TURB | Turbidity | 7/26/2022 11:46 | 1.26 | NTU |
| GS-AP-MW-34HO | COND | Conductivity | 7/26/2022 13:15 | 4704.36 | uS/cm |
| GS-AP-MW-34HO | DO | DO | 7/26/2022 13:15 | 0.61 | mg/L |
| GS-AP-MW-34HO | DTW | Depth to Water Detail | 7/26/2022 13:15 | 277.93 | ft |
| GS-AP-MW-34HO | ORP | Oxidation Reduction Potention | 7/26/2022 13:15 | -243.38 | mv |
| GS-AP-MW-34HO | PH | pH | 7/26/2022 13:15 | 7.03 | SU |
| GS-AP-MW-34HO | TEMP | Temperature | 7/26/2022 13:15 | 20.63 | C |
| GS-AP-MW-34HO | TURB | Turbidity | 7/26/2022 13:15 | 2.84 | NTU |
| GS-AP-MW-34HO | COND | Conductivity | 7/26/2022 13:20 | 4642.08 | uS/cm |
| GS-AP-MW-34HO | DO | DO | 7/26/2022 13:20 | 0.36 | mg/L |
| GS-AP-MW-34HO | DTW | Depth to Water Detail | 7/26/2022 13:20 | 281.25 | ft |
| GS-AP-MW-34HO | ORP | Oxidation Reduction Potention | 7/26/2022 13:20 | -218.48 | mv |
| GS-AP-MW-34HO | PH | pH | 7/26/2022 13:20 | 6.98 | SU |
| GS-AP-MW-34HO | TEMP | Temperature | 7/26/2022 13:20 | 20.29 | C |
| GS-AP-MW-34HO | TURB | Turbidity | 7/26/2022 13:20 | 4.21 | NTU |
| GS-AP-MW-34HO | COND | Conductivity | 7/26/2022 13:25 | 4508.75 | uS/cm |
| GS-AP-MW-34HO | DO | DO | 7/26/2022 13:25 | 0.3 | mg/L |
| GS-AP-MW-34HO | DTW | Depth to Water Detail | 7/26/2022 13:25 | 282.35 | ft |
| GS-AP-MW-34HO | ORP | Oxidation Reduction Potention | 7/26/2022 13:25 | -215.62 | mv |
| GS-AP-MW-34HO | PH | pH | 7/26/2022 13:25 | 6.96 | SU |
| GS-AP-MW-34HO | TEMP | Temperature | 7/26/2022 13:25 | 20.62 | C |
| GS-AP-MW-34HO | TURB | Turbidity | 7/26/2022 13:25 | 4.62 | NTU |
| GS-AP-MW-34HO | COND | Conductivity | 7/26/2022 13:30 | 4476.58 | uS/cm |
| GS-AP-MW-34HO | DO | DO | 7/26/2022 13:30 | 0.27 | mg/L |
| GS-AP-MW-34HO | DTW | Depth to Water Detail | 7/26/2022 13:30 | 285.24 | ft |
| GS-AP-MW-34HO | ORP | Oxidation Reduction Potention | 7/26/2022 13:30 | -214.65 | mv |
| GS-AP-MW-34HO | PH | pH | 7/26/2022 13:30 | 6.85 | SU |
| GS-AP-MW-34HO | TEMP | Temperature | 7/26/2022 13:30 | 20.24 | C |
| GS-AP-MW-34HO | TURB | Turbidity | 7/26/2022 13:30 | 4.57 | NTU |
| GS-AP-MW-34HO | COND | Conductivity | 7/26/2022 13:35 | 4487.97 | uS/cm |
| GS-AP-MW-34HO | DO | DO | 7/26/2022 13:35 | 0.26 | mg/L |
| GS-AP-MW-34HO | DTW | Depth to Water Detail | 7/26/2022 13:35 | 286.23 | ft |
| GS-AP-MW-34HO | ORP | Oxidation Reduction Potention | 7/26/2022 13:35 | -216.99 | mv |
| GS-AP-MW-34HO | PH | pH | 7/26/2022 13:35 | 6.92 | SU |
| GS-AP-MW-34HO | TEMP | Temperature | 7/26/2022 13:35 | 20.61 | C |
| GS-AP-MW-34HO | TURB | Turbidity | 7/26/2022 13:35 | 4.26 | NTU |
| GS-AP-MW-34HO | COND | Conductivity | 7/26/2022 13:40 | 4453.98 | uS/cm |
| GS-AP-MW-34HO | DO | DO | 7/26/2022 13:40 | 0.23 | mg/L |
| GS-AP-MW-34HO | DTW | Depth to Water Detail | 7/26/2022 13:40 | 287.55 | ft |
| GS-AP-MW-34HO | ORP | Oxidation Reduction Potention | 7/26/2022 13:40 | -218.11 | mv |
| GS-AP-MW-34HO | PH | pH | 7/26/2022 13:40 | 6.91 | SU |
| GS-AP-MW-34HO | TEMP | Temperature | 7/26/2022 13:40 | 20.49 | C |
| GS-AP-MW-34HO | TURB | Turbidity | 7/26/2022 13:40 | 4.12 | NTU |
| GS-AP-MW-34HO | COND | Conductivity | 7/26/2022 13:45 | 4469.58 | uS/cm |

**Field Parameters Summary
2022 SA02 Offsite Sampling Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-34HO | DO | DO | 7/26/2022 13:45 | 0.44 | mg/L |
| GS-AP-MW-34HO | DTW | Depth to Water Detail | 7/26/2022 13:45 | 287.98 | ft |
| GS-AP-MW-34HO | ORP | Oxidation Reduction Potention | 7/26/2022 13:45 | -216.58 | mv |
| GS-AP-MW-34HO | PH | pH | 7/26/2022 13:45 | 7.01 | SU |
| GS-AP-MW-34HO | TEMP | Temperature | 7/26/2022 13:45 | 23.39 | C |
| GS-AP-MW-34HO | TURB | Turbidity | 7/26/2022 13:45 | 4.2 | NTU |
| GS-AP-MW-34HO | COND | Conductivity | 7/26/2022 13:50 | 4483.36 | uS/cm |
| GS-AP-MW-34HO | DO | DO | 7/26/2022 13:50 | 0.5 | mg/L |
| GS-AP-MW-34HO | DTW | Depth to Water Detail | 7/26/2022 13:50 | 287.98 | ft |
| GS-AP-MW-34HO | ORP | Oxidation Reduction Potention | 7/26/2022 13:50 | -218.38 | mv |
| GS-AP-MW-34HO | PH | pH | 7/26/2022 13:50 | 7.04 | SU |
| GS-AP-MW-34HO | TEMP | Temperature | 7/26/2022 13:50 | 23.53 | C |
| GS-AP-MW-34HO | TURB | Turbidity | 7/26/2022 13:50 | 3.9 | NTU |
| GS-AP-MW-34HO | COND | Conductivity | 7/26/2022 13:55 | 4469.38 | uS/cm |
| GS-AP-MW-34HO | DO | DO | 7/26/2022 13:55 | 0.5 | mg/L |
| GS-AP-MW-34HO | DTW | Depth to Water Detail | 7/26/2022 13:55 | 287.98 | ft |
| GS-AP-MW-34HO | ORP | Oxidation Reduction Potention | 7/26/2022 13:55 | -219.45 | mv |
| GS-AP-MW-34HO | PH | pH | 7/26/2022 13:55 | 7.06 | SU |
| GS-AP-MW-34HO | SULFIDE | Sulfide | 7/26/2022 13:55 | 2 | mg/L |
| GS-AP-MW-34HO | TEMP | Temperature | 7/26/2022 13:55 | 23.81 | C |
| GS-AP-MW-34HO | TURB | Turbidity | 7/26/2022 13:55 | 4.01 | NTU |
| GS-AP-MW-35HO | COND | Conductivity | 7/25/2022 14:28 | 462.37 | uS/cm |
| GS-AP-MW-35HO | DO | DO | 7/25/2022 14:28 | 0.5 | mg/L |
| GS-AP-MW-35HO | DTW | Depth to Water Detail | 7/25/2022 14:28 | 277.58 | ft |
| GS-AP-MW-35HO | ORP | Oxidation Reduction Potention | 7/25/2022 14:28 | -167.06 | mv |
| GS-AP-MW-35HO | PH | pH | 7/25/2022 14:28 | 7.79 | SU |
| GS-AP-MW-35HO | TEMP | Temperature | 7/25/2022 14:28 | 20.57 | C |
| GS-AP-MW-35HO | TURB | Turbidity | 7/25/2022 14:28 | 12.2 | NTU |
| GS-AP-MW-35HO | COND | Conductivity | 7/25/2022 14:33 | 459.11 | uS/cm |
| GS-AP-MW-35HO | DO | DO | 7/25/2022 14:33 | 0.42 | mg/L |
| GS-AP-MW-35HO | DTW | Depth to Water Detail | 7/25/2022 14:33 | 278.3 | ft |
| GS-AP-MW-35HO | ORP | Oxidation Reduction Potention | 7/25/2022 14:33 | -175.76 | mv |
| GS-AP-MW-35HO | PH | pH | 7/25/2022 14:33 | 7.8 | SU |
| GS-AP-MW-35HO | TEMP | Temperature | 7/25/2022 14:33 | 20.06 | C |
| GS-AP-MW-35HO | TURB | Turbidity | 7/25/2022 14:33 | 11.36 | NTU |
| GS-AP-MW-35HO | COND | Conductivity | 7/25/2022 14:38 | 461.71 | uS/cm |
| GS-AP-MW-35HO | DO | DO | 7/25/2022 14:38 | 0.36 | mg/L |
| GS-AP-MW-35HO | DTW | Depth to Water Detail | 7/25/2022 14:38 | 279.74 | ft |
| GS-AP-MW-35HO | ORP | Oxidation Reduction Potention | 7/25/2022 14:38 | -180.89 | mv |
| GS-AP-MW-35HO | PH | pH | 7/25/2022 14:38 | 7.9 | SU |
| GS-AP-MW-35HO | TEMP | Temperature | 7/25/2022 14:38 | 20.3 | C |
| GS-AP-MW-35HO | TURB | Turbidity | 7/25/2022 14:38 | 5.4 | NTU |
| GS-AP-MW-35HO | COND | Conductivity | 7/25/2022 14:43 | 460.14 | uS/cm |
| GS-AP-MW-35HO | DO | DO | 7/25/2022 14:43 | 0.36 | mg/L |
| GS-AP-MW-35HO | DTW | Depth to Water Detail | 7/25/2022 14:43 | 280.75 | ft |

**Field Parameters Summary
2022 SA02 Offsite Sampling Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-35HO | ORP | Oxidation Reduction Potention | 7/25/2022 14:43 | -184.86 | mv |
| GS-AP-MW-35HO | PH | pH | 7/25/2022 14:43 | 7.96 | SU |
| GS-AP-MW-35HO | TEMP | Temperature | 7/25/2022 14:43 | 20.16 | C |
| GS-AP-MW-35HO | TURB | Turbidity | 7/25/2022 14:43 | 5.27 | NTU |
| GS-AP-MW-35HO | COND | Conductivity | 7/25/2022 14:48 | 457.2 | uS/cm |
| GS-AP-MW-35HO | DO | DO | 7/25/2022 14:48 | 0.33 | mg/L |
| GS-AP-MW-35HO | DTW | Depth to Water Detail | 7/25/2022 14:48 | 281.35 | ft |
| GS-AP-MW-35HO | ORP | Oxidation Reduction Potention | 7/25/2022 14:48 | -189.7 | mv |
| GS-AP-MW-35HO | PH | pH | 7/25/2022 14:48 | 8.03 | SU |
| GS-AP-MW-35HO | TEMP | Temperature | 7/25/2022 14:48 | 19.76 | C |
| GS-AP-MW-35HO | TURB | Turbidity | 7/25/2022 14:48 | 6.06 | NTU |
| GS-AP-MW-35HO | COND | Conductivity | 7/25/2022 14:53 | 451.26 | uS/cm |
| GS-AP-MW-35HO | DO | DO | 7/25/2022 14:53 | 0.32 | mg/L |
| GS-AP-MW-35HO | DTW | Depth to Water Detail | 7/25/2022 14:53 | 281.75 | ft |
| GS-AP-MW-35HO | ORP | Oxidation Reduction Potention | 7/25/2022 14:53 | -191.58 | mv |
| GS-AP-MW-35HO | PH | pH | 7/25/2022 14:53 | 8.09 | SU |
| GS-AP-MW-35HO | TEMP | Temperature | 7/25/2022 14:53 | 19.85 | C |
| GS-AP-MW-35HO | TURB | Turbidity | 7/25/2022 14:53 | 4.4 | NTU |
| GS-AP-MW-35HO | COND | Conductivity | 7/25/2022 14:58 | 455.9 | uS/cm |
| GS-AP-MW-35HO | DO | DO | 7/25/2022 14:58 | 0.34 | mg/L |
| GS-AP-MW-35HO | DTW | Depth to Water Detail | 7/25/2022 14:58 | 282.25 | ft |
| GS-AP-MW-35HO | ORP | Oxidation Reduction Potention | 7/25/2022 14:58 | -193.57 | mv |
| GS-AP-MW-35HO | PH | pH | 7/25/2022 14:58 | 8.15 | SU |
| GS-AP-MW-35HO | TEMP | Temperature | 7/25/2022 14:58 | 20.72 | C |
| GS-AP-MW-35HO | TURB | Turbidity | 7/25/2022 14:58 | 4.88 | NTU |
| GS-AP-MW-35HO | COND | Conductivity | 7/25/2022 15:03 | 447.43 | uS/cm |
| GS-AP-MW-35HO | DO | DO | 7/25/2022 15:03 | 0.49 | mg/L |
| GS-AP-MW-35HO | DTW | Depth to Water Detail | 7/25/2022 15:03 | 282.4 | ft |
| GS-AP-MW-35HO | ORP | Oxidation Reduction Potention | 7/25/2022 15:03 | -189.59 | mv |
| GS-AP-MW-35HO | PH | pH | 7/25/2022 15:03 | 8.2 | SU |
| GS-AP-MW-35HO | TEMP | Temperature | 7/25/2022 15:03 | 22.07 | C |
| GS-AP-MW-35HO | TURB | Turbidity | 7/25/2022 15:03 | 3.95 | NTU |
| GS-AP-MW-35HO | COND | Conductivity | 7/25/2022 15:08 | 446.26 | uS/cm |
| GS-AP-MW-35HO | DO | DO | 7/25/2022 15:08 | 0.66 | mg/L |
| GS-AP-MW-35HO | DTW | Depth to Water Detail | 7/25/2022 15:08 | 281.7 | ft |
| GS-AP-MW-35HO | ORP | Oxidation Reduction Potention | 7/25/2022 15:08 | -190.34 | mv |
| GS-AP-MW-35HO | PH | pH | 7/25/2022 15:08 | 8.28 | SU |
| GS-AP-MW-35HO | SULFIDE | Sulfide | 7/25/2022 15:08 | 0 | mg/L |
| GS-AP-MW-35HO | TEMP | Temperature | 7/25/2022 15:08 | 22.81 | C |
| GS-AP-MW-35HO | TURB | Turbidity | 7/25/2022 15:08 | 4.64 | NTU |

**Field Parameters Summary
2022 SA02 Offsite Sampling Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|---------------|-----------|-------------------------------|-----------------|---------|-------|
| GS-AP-MW-44HO | COND | Conductivity | 7/20/2022 7:55 | 877.69 | uS/cm |
| GS-AP-MW-44HO | DO | DO | 7/20/2022 7:55 | 0.23 | mg/L |
| GS-AP-MW-44HO | DTW | Depth to Water Detail | 7/20/2022 7:55 | 156.2 | ft |
| GS-AP-MW-44HO | ORP | Oxidation Reduction Potention | 7/20/2022 7:55 | -196.87 | mv |
| GS-AP-MW-44HO | PH | pH | 7/20/2022 7:55 | 8.6 | SU |
| GS-AP-MW-44HO | TEMP | Temperature | 7/20/2022 7:55 | 17.96 | C |
| GS-AP-MW-44HO | TURB | Turbidity | 7/20/2022 7:55 | 4.41 | NTU |
| GS-AP-MW-44HO | COND | Conductivity | 7/20/2022 8:00 | 878.94 | uS/cm |
| GS-AP-MW-44HO | DO | DO | 7/20/2022 8:00 | 0.18 | mg/L |
| GS-AP-MW-44HO | DTW | Depth to Water Detail | 7/20/2022 8:00 | 156.65 | ft |
| GS-AP-MW-44HO | ORP | Oxidation Reduction Potention | 7/20/2022 8:00 | -232.01 | mv |
| GS-AP-MW-44HO | PH | pH | 7/20/2022 8:00 | 8.66 | SU |
| GS-AP-MW-44HO | TEMP | Temperature | 7/20/2022 8:00 | 17.89 | C |
| GS-AP-MW-44HO | TURB | Turbidity | 7/20/2022 8:00 | 4.39 | NTU |
| GS-AP-MW-44HO | COND | Conductivity | 7/20/2022 8:05 | 875.8 | uS/cm |
| GS-AP-MW-44HO | DO | DO | 7/20/2022 8:05 | 0.16 | mg/L |
| GS-AP-MW-44HO | DTW | Depth to Water Detail | 7/20/2022 8:05 | 161.15 | ft |
| GS-AP-MW-44HO | ORP | Oxidation Reduction Potention | 7/20/2022 8:05 | -255.85 | mv |
| GS-AP-MW-44HO | PH | pH | 7/20/2022 8:05 | 8.69 | SU |
| GS-AP-MW-44HO | TEMP | Temperature | 7/20/2022 8:05 | 18.3 | C |
| GS-AP-MW-44HO | TURB | Turbidity | 7/20/2022 8:05 | 5.97 | NTU |
| GS-AP-MW-44HO | COND | Conductivity | 7/20/2022 8:10 | 854.86 | uS/cm |
| GS-AP-MW-44HO | DO | DO | 7/20/2022 8:10 | 0.13 | mg/L |
| GS-AP-MW-44HO | DTW | Depth to Water Detail | 7/20/2022 8:10 | 165.65 | ft |
| GS-AP-MW-44HO | ORP | Oxidation Reduction Potention | 7/20/2022 8:10 | -268.87 | mv |
| GS-AP-MW-44HO | PH | pH | 7/20/2022 8:10 | 8.67 | SU |
| GS-AP-MW-44HO | TEMP | Temperature | 7/20/2022 8:10 | 17.91 | C |
| GS-AP-MW-44HO | TURB | Turbidity | 7/20/2022 8:10 | 3.94 | NTU |
| GS-AP-MW-44HO | COND | Conductivity | 7/20/2022 8:15 | 854.29 | uS/cm |
| GS-AP-MW-44HO | DO | DO | 7/20/2022 8:15 | 0.3 | mg/L |
| GS-AP-MW-44HO | DTW | Depth to Water Detail | 7/20/2022 8:15 | 166.47 | ft |
| GS-AP-MW-44HO | ORP | Oxidation Reduction Potention | 7/20/2022 8:15 | -270.51 | mv |
| GS-AP-MW-44HO | PH | pH | 7/20/2022 8:15 | 8.6 | SU |
| GS-AP-MW-44HO | TEMP | Temperature | 7/20/2022 8:15 | 19.1 | C |
| GS-AP-MW-44HO | TURB | Turbidity | 7/20/2022 8:15 | 3.61 | NTU |
| GS-AP-MW-44HO | COND | Conductivity | 7/20/2022 8:20 | 855.09 | uS/cm |
| GS-AP-MW-44HO | DO | DO | 7/20/2022 8:20 | 0.3 | mg/L |
| GS-AP-MW-44HO | DTW | Depth to Water Detail | 7/20/2022 8:20 | 166.47 | ft |
| GS-AP-MW-44HO | ORP | Oxidation Reduction Potention | 7/20/2022 8:20 | -284.67 | mv |
| GS-AP-MW-44HO | PH | pH | 7/20/2022 8:20 | 8.9 | SU |
| GS-AP-MW-44HO | TEMP | Temperature | 7/20/2022 8:20 | 19.28 | C |
| GS-AP-MW-44HO | TURB | Turbidity | 7/20/2022 8:20 | 3.26 | NTU |
| GS-AP-MW-44HO | COND | Conductivity | 7/20/2022 8:25 | 854.13 | uS/cm |
| GS-AP-MW-44HO | DO | DO | 7/20/2022 8:25 | 0.31 | mg/L |
| GS-AP-MW-44HO | DTW | Depth to Water Detail | 7/20/2022 8:25 | 166.47 | ft |

**Field Parameters Summary
2022 SA02 Offsite Sampling Event
Plant Gorgas Ash Pond**

| WELL ID | PARAMETER | DESCRIPTION | TIME OF READING | VALUE | UNIT |
|----------------|------------------|-------------------------------|------------------------|--------------|-------------|
| GS-AP-MW-44HO | ORP | Oxidation Reduction Potention | 7/20/2022 8:25 | -288.36 | mv |
| GS-AP-MW-44HO | PH | pH | 7/20/2022 8:25 | 8.98 | SU |
| GS-AP-MW-44HO | TEMP | Temperature | 7/20/2022 8:25 | 19.21 | C |
| GS-AP-MW-44HO | TURB | Turbidity | 7/20/2022 8:25 | 3.42 | NTU |
| GS-AP-MW-44HO | COND | Conductivity | 7/20/2022 8:30 | 845.96 | uS/cm |
| GS-AP-MW-44HO | DO | DO | 7/20/2022 8:30 | 0.3 | mg/L |
| GS-AP-MW-44HO | DTW | Depth to Water Detail | 7/20/2022 8:30 | 166.47 | ft |
| GS-AP-MW-44HO | ORP | Oxidation Reduction Potention | 7/20/2022 8:30 | -292.64 | mv |
| GS-AP-MW-44HO | PH | pH | 7/20/2022 8:30 | 9.02 | SU |
| GS-AP-MW-44HO | SULFIDE | Sulfide | 7/20/2022 8:30 | 5 | mg/L |
| GS-AP-MW-44HO | TEMP | Temperature | 7/20/2022 8:30 | 19.34 | C |
| GS-AP-MW-44HO | TURB | Turbidity | 7/20/2022 8:30 | 4.93 | NTU |

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWGORAP_1379

Project/Site : Gorgas Ash Pond
Parrish, AL 35580

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Renee Jernigan
rgarner@southernco.com
(205) 664-6247

August 19, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on July 27, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2023

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Renee Jernigan**
Digitally signed by Renee Jernigan
Date: 2022.08.19 17:53:45 -05'00'

Supervision: **T Durant Maske**
Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske, c=US, United States, e=tdmaske@southernco.com
Reason: I am the author of this document
Location:
Date: 2022-08-22 08:58:05:00



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Total Metals ICP

Gorgas Ash Pond

WMWGORAP_1379

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13956 | 732543 | WMWGORAP_1379 |
| BC13957 | 732543 | WMWGORAP_1379 |
| BC13958 | 732543 | WMWGORAP_1379 |
| BC13959 | 732543 | WMWGORAP_1379 |
| BC13960 | 732543 | WMWGORAP_1379 |
| BC13961 | 732543 | WMWGORAP_1379 |

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC13956 | Sodium | 10.15 |
| BC13958 | Sodium | 10.15 |
| BC13959 | Sodium | 10.15 |
| BC13960 | Calcium | 10.15 |
| BC13960 | Sodium | 101.5 |

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Gorgas Ash Pond

WMWGORAP_1379

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13956 | 733088 | WMWGORAP_1379 |
| BC13958 | 733088 | WMWGORAP_1379 |
| BC13959 | 733088 | WMWGORAP_1379 |
| BC13960 | 733088 | WMWGORAP_1379 |

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met except for the following:
 - BC13960 Calcium and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|-----------------|------------------------|
| BC13956 | Sodium | 10.15 |
| BC13958 | Sodium | 10.15 |
| BC13959 | Sodium | 10.15 |
| BC13960 | Calcium, Sodium | 101.5 |

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1379

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13956 | 732467 | WMWGORAP_1379 |
| BC13957 | 732467 | WMWGORAP_1379 |
| BC13958 | 732467 | WMWGORAP_1379 |
| BC13959 | 732467 | WMWGORAP_1379 |
| BC13960 | 732467 | WMWGORAP_1379 |
| BC13961 | 732467 | WMWGORAP_1379 |

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1379

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13956 | 732374 | WMWGORAP_1379 |
| BC13958 | 732374 | WMWGORAP_1379 |
| BC13959 | 732374 | WMWGORAP_1379 |
| BC13960 | 732374 | WMWGORAP_1379 |

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC13960 Potassium MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Mercury

Gorgas Ash Pond

WMWGORAP_1379

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13956 | 732771 | WMWGORAP_1379 |
| BC13957 | 732771 | WMWGORAP_1379 |
| BC13958 | 732771 | WMWGORAP_1379 |
| BC13959 | 732771 | WMWGORAP_1379 |
| BC13960 | 732771 | WMWGORAP_1379 |
| BC13961 | 732771 | WMWGORAP_1379 |

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.

Total Dissolved Solids

Gorgas Ash Pond

WMWGORAP_1379

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13956 | 731938 | WMWGORAP_1379 |
| BC13957 | 731938 | WMWGORAP_1379 |
| BC13958 | 731938 | WMWGORAP_1379 |
| BC13959 | 731938 | WMWGORAP_1379 |
| BC13960 | 731939 | WMWGORAP_1379 |
| BC13961 | 731938 | WMWGORAP_1379 |

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC13957
 - BC13961

Anions

Gorgas Ash Pond

WMWGORAP_1379

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|----------------------|-------------------|
| BC13956 | 731965,731968,732789 | WMWGORAP_1379 |
| BC13957 | 731965,731968,732789 | WMWGORAP_1379 |
| BC13958 | 731965,731968,732789 | WMWGORAP_1379 |
| BC13959 | 731965,731968,732789 | WMWGORAP_1379 |
| BC13960 | 731965,731968,732789 | WMWGORAP_1379 |
| BC13961 | 731965,731968,732789 | WMWGORAP_1379 |

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|--------------------|------------------------|
| BC13960 | Chloride & Sulfate | 100 & 80 |

8. The raw data results are shown with dilution factors included.

Case Narrative

Alkalinity

Gorgas Ash Pond

WMWGORAP_1379

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13956 | 732262; 732263 | WMWGORAP_1379 |
| BC13958 | 732262; 732263 | WMWGORAP_1379 |
| BC13959 | 732262; 732263 | WMWGORAP_1379 |
| BC13960 | 732262; 732263 | WMWGORAP_1379 |

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
 - A final pH check was analyzed with each batch. The acceptance criteria were met.
 - An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
 - An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
 - BC13960

Nitrate-Nitrite

Gorgas Ash Pond

WMWGORAP_1379

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13956 | 732121 | WMWGORAP_1379 |
| BC13957 | 732121 | WMWGORAP_1379 |
| BC13958 | 732121 | WMWGORAP_1379 |
| BC13959 | 732121 | WMWGORAP_1379 |
| BC13960 | 732121 | WMWGORAP_1379 |
| BC13961 | 732121 | WMWGORAP_1379 |

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Gorgas Ash Pond

WMWGORAP_1379

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13956 | 732674 | WMWGORAP_1379 |
| BC13957 | 732674 | WMWGORAP_1379 |
| BC13958 | 732674 | WMWGORAP_1379 |
| BC13959 | 732674 | WMWGORAP_1379 |
| BC13960 | 732674 | WMWGORAP_1379 |
| BC13961 | 732674 | WMWGORAP_1379 |

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was $<1/2RL$.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were $<1/2RL$.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-35HO

Location Code: WMWGORAP
Collected: 7/25/22 15:10
Customer ID:
Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13956

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/28/22 06:57 | 8/1/22 14:14 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/28/22 06:57 | 8/1/22 14:14 | | 1.015 | 1.70 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 7/28/22 06:57 | 8/1/22 14:14 | | 1.015 | 0.0384 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 7/28/22 06:57 | 8/1/22 14:14 | | 1.015 | 0.0713 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/28/22 06:57 | 8/1/22 14:14 | | 1.015 | 0.376 | mg/L | 0.021315 | 0.406 | J |
| Silica, Total (calc.) | 7/28/22 06:57 | 8/1/22 14:14 | | 1 | 19.8 | mg/L | | | |
| Silicon, Total | 7/28/22 06:57 | 8/1/22 14:14 | | 1.015 | 9.23 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/28/22 06:57 | 8/1/22 14:48 | | 10.15 | 118 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 07:26 | 8/3/22 12:27 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/3/22 07:26 | 8/3/22 12:27 | | 1.015 | 1.35 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 07:26 | 8/3/22 12:27 | | 1.015 | 0.0106 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Dissolved | 8/3/22 07:26 | 8/3/22 12:27 | | 1.015 | 0.0643 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 07:26 | 8/3/22 12:27 | | 1.015 | 0.311 | mg/L | 0.021315 | 0.406 | J |
| Silica, Dissolved (calc.) | 8/3/22 07:26 | 8/3/22 12:27 | | 1 | 18.8 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 07:26 | 8/3/22 12:27 | | 1.015 | 8.77 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 07:26 | 8/3/22 13:14 | | 10.15 | 115 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | 0.0443 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | 0.000116 | mg/L | 0.000081 | 0.000203 | J |
| * Barium, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | 0.0497 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | 0.000218 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | 0.00527 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | 0.000692 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | 1.16 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-35HO

Location Code: WMWGORAP
Collected: 7/25/22 15:10
Customer ID:
Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13956

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/28/22 06:57 | 7/28/22 10:55 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | 0.00735 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | 0.0441 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | 0.00390 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | 0.000700 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | 1.23 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/27/22 14:06 | 7/27/22 14:38 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 13:37 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 14:12 | 7/28/22 14:12 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 267 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/27/22 13:35 | 7/28/22 13:37 | | 1 | 296 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 259 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 7.88 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/3/22 21:12 | 8/3/22 21:12 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-35HO

Location Code: WMWGORAP

Collected: 7/25/22 15:10

Customer ID:

Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13956

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:40 | 7/27/22 11:40 | | 1 | 9.54 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:04 | 8/8/22 13:04 | | 1 | 0.201 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 11:40 | 8/4/22 11:40 | | 1 | 16.0 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 7/25/22 15:08 | 7/25/22 15:08 | | | 446.26 | uS/cm | | | FA |
| pH | 7/25/22 15:08 | 7/25/22 15:08 | | | 8.28 | SU | | | FA |
| Temperature | 7/25/22 15:08 | 7/25/22 15:08 | | | 22.81 | C | | | FA |
| Turbidity | 7/25/22 15:08 | 7/25/22 15:08 | | | 4.64 | NTU | | | FA |
| Sulfide | 7/25/22 15:08 | 7/25/22 15:08 | | | 0 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 15:10

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-35HO

Laboratory ID Number: BC13956

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13960 | Aluminum, Dissolved | mg/L | -0.000414 | 0.010 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Aluminum, Total | mg/L | 0.00132 | 0.010 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC13960 | Antimony, Dissolved | mg/L | 0.000295 | 0.00100 | 0.100 | 0.0987 | 0.0976 | 0.0879 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 1.12 | 20.0 |
| BC13961 | Antimony, Total | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0960 | 0.0980 | 0.0986 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 2.06 | 20.0 |
| BC13960 | Arsenic, Dissolved | mg/L | -0.0000296 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0984 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Arsenic, Total | mg/L | 0.0000216 | 0.000176 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC13960 | Barium, Dissolved | mg/L | -0.0000698 | 0.00100 | 0.100 | 0.161 | 0.161 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Barium, Total | mg/L | -0.0000117 | 0.00100 | 0.100 | 0.0965 | 0.0976 | 0.0982 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.13 | 20.0 |
| BC13960 | Beryllium, Dissolved | mg/L | 0.0000210 | 0.000880 | 0.100 | 0.101 | 0.0955 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 5.60 | 20.0 |
| BC13961 | Beryllium, Total | mg/L | 0.0000329 | 0.000880 | 0.100 | 0.103 | 0.107 | 0.108 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC13960 | Boron, Dissolved | mg/L | -0.00155 | 0.0650 | 1.00 | 1.12 | 1.17 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 4.37 | 20.0 |
| BC13961 | Boron, Total | mg/L | -0.00120 | 0.0650 | 1.00 | 1.01 | 0.993 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 1.70 | 20.0 |
| BC13960 | Cadmium, Dissolved | mg/L | 0.0000038 | 0.000147 | 0.100 | 0.0977 | 0.100 | 0.101 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 2.33 | 20.0 |
| BC13961 | Cadmium, Total | mg/L | 0.0000126 | 0.000147 | 0.100 | 0.0978 | 0.0993 | 0.0992 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.52 | 20.0 |
| BC13960 | Calcium, Dissolved | mg/L | -0.00772 | 0.152 | 5.00 | 98.0 | 99.8 | 4.84 | 4.25 to 5.75 | 22.0 | 70.0 to 130 | 1.82 | 20.0 |
| BC13961 | Calcium, Total | mg/L | -0.00661 | 0.152 | 5.00 | 5.36 | 5.28 | 5.24 | 4.25 to 5.75 | 107 | 70.0 to 130 | 1.50 | 20.0 |
| BC13961 | Chloride | mg/L | 0.0593 | 1.00 | 10.0 | 10.4 | 10.5 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.957 | 20.0 |
| BC13960 | Chromium, Dissolved | mg/L | -0.0000251 | 0.000440 | 0.100 | 0.0986 | 0.0997 | 0.101 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.11 | 20.0 |
| BC13961 | Chromium, Total | mg/L | 0.0000292 | 0.000440 | 0.100 | 0.0988 | 0.101 | 0.0999 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 2.20 | 20.0 |
| BC13960 | Cobalt, Dissolved | mg/L | -0.0000186 | 0.000147 | 0.100 | 0.0988 | 0.0985 | 0.101 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.304 | 20.0 |
| BC13961 | Cobalt, Total | mg/L | -0.0000063 | 0.000147 | 0.100 | 0.100 | 0.102 | 0.0999 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13961 | Fluoride | mg/L | -0.0323 | 0.125 | 2.50 | 2.72 | 2.65 | 2.69 | 2.25 to 2.75 | 109 | 80.0 to 120 | 2.61 | 20.0 |
| BC13960 | Iron, Dissolved | mg/L | 0.0000091 | 0.0176 | 0.2 | 0.481 | 0.484 | 0.198 | 0.170 to 0.230 | 92.0 | 70.0 to 130 | 0.622 | 20.0 |
| BC13961 | Iron, Total | mg/L | 7.730E-05 | 0.0176 | 0.2 | 0.216 | 0.214 | 0.213 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.930 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 15:10

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-35HO

Laboratory ID Number: BC13956

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC13960 | Lead, Dissolved | mg/L | 0.000091 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC13961 | Lead, Total | mg/L | 0.000088 | 0.000147 | 0.100 | 0.101 | 0.104 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC13960 | Lithium, Dissolved | mg/L | 0.000071 | 0.0154 | 0.200 | 0.435 | 0.433 | 0.190 | 0.170 to 0.230 | 123 | 70.0 to 130 | 0.461 | 20.0 |
| BC13961 | Lithium, Total | mg/L | 0.000117 | 0.0154 | 0.200 | 0.216 | 0.213 | 0.211 | 0.170 to 0.230 | 108 | 70.0 to 130 | 1.40 | 20.0 |
| BC13960 | Magnesium, Dissolved | mg/L | 0.00445 | 0.0462 | 5.00 | 35.1 | 35.3 | 4.74 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.568 | 20.0 |
| BC13961 | Magnesium, Total | mg/L | -0.000392 | 0.0462 | 5.00 | 5.39 | 5.29 | 5.25 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.87 | 20.0 |
| BC13960 | Manganese, Dissolved | mg/L | -0.000209 | 0.0002 | 0.100 | 0.308 | 0.310 | 0.104 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.647 | 20.0 |
| BC13961 | Manganese, Total | mg/L | 0.0000209 | 0.0002 | 0.100 | 0.101 | 0.103 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC13961 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00366 | 0.00366 | 0.00372 | 0.00340 to 0.00460 | 91.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC13960 | Molybdenum, Dissolved | mg/L | 0.0000065 | 0.0002 | 0.100 | 0.104 | 0.105 | 0.0989 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 0.957 | 20.0 |
| BC13961 | Molybdenum, Total | mg/L | -0.0000025 | 0.0002 | 0.100 | 0.0988 | 0.0980 | 0.0963 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.813 | 20.0 |
| BC13960 | Potassium, Dissolved | mg/L | 0.00614 | 0.367 | 10.0 | 77.5 | 78.2 | 10.3 | 8.50 to 11.5 | 59.0 | 70.0 to 130 | 0.899 | 20.0 |
| BC13961 | Potassium, Total | mg/L | -0.000574 | 0.367 | 10.0 | 10.1 | 9.97 | 10.1 | 8.50 to 11.5 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13960 | Selenium, Dissolved | mg/L | 0.000340 | 0.00100 | 0.100 | 0.0984 | 0.0977 | 0.0999 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.714 | 20.0 |
| BC13961 | Selenium, Total | mg/L | 0.000165 | 0.00100 | 0.100 | 0.100 | 0.102 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13960 | Silicon, Dissolved | mg/L | 0.000157 | 0.0440 | 1.00 | 6.35 | 6.39 | 0.982 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.628 | 20.0 |
| BC13961 | Silicon, Total | mg/L | -0.00285 | 0.0440 | 1.00 | 1.04 | 1.02 | 1.04 | 0.850 to 1.15 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13960 | Sodium, Dissolved | mg/L | 0.000491 | 0.0660 | 5.00 | 868 | 881 | 4.63 | 4.25 to 5.75 | -900 | 70.0 to 130 | 1.49 | 20.0 |
| BC13961 | Sodium, Total | mg/L | -0.00253 | 0.0660 | 5.00 | 5.12 | 5.05 | 5.02 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.38 | 20.0 |
| BC13961 | Sulfate | mg/L | -0.820 | 2.0 | 20.0 | 20.0 | 20.5 | 19.4 | 18.0 to 22.0 | 100 | 80.0 to 120 | 2.47 | 20.0 |
| BC13960 | Thallium, Dissolved | mg/L | 0.0000020 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Thallium, Total | mg/L | 0.0000019 | 0.000147 | 0.100 | 0.102 | 0.106 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.85 | 20.0 |
| BC13961 | Total Organic Carbon | mg/L | 0.234 | 1.00 | 10.0 | 9.61 | 9.48 | 22.6 | | 96.1 | 80.0 to 120 | 1.36 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/25/22 15:10

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-35HO

Laboratory ID Number: BC13956

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|------|----------|-------|------|------------------|-------------------|----------------|------|-------------|------|------------|
| BC13960 | Alkalinity, Total as CaCO3 | mg/L | | | | | 238 | 50.7 | 45.0 to 55.0 | | | 0.00 | 10.0 |
| BC13961 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 1.99 | -0.004 | 1.83 | 1.80 to 2.20 | 99.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC13959 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 267 | 53.0 | 40.0 to 60.0 | | | 1.49 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB
Collected: 7/26/22 11:30
Customer ID:
Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13957

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/28/22 06:57 | 8/1/22 14:17 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/28/22 06:57 | 8/1/22 14:17 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 7/28/22 06:57 | 8/1/22 14:17 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 7/28/22 06:57 | 8/1/22 14:17 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 7/28/22 06:57 | 8/1/22 14:17 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 7/28/22 06:57 | 8/1/22 14:17 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 7/28/22 06:57 | 8/1/22 14:17 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 7/28/22 06:57 | 8/1/22 14:17 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | 0.000225 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U |
| * Molybdenum, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/28/22 06:57 | 7/28/22 10:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: ELH | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 13:40 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: CES | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 14:14 | 7/28/22 14:14 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 7/27/22 13:35 | 7/28/22 13:37 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB

Collected: 7/26/22 11:30

Customer ID:

Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13957

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/3/22 21:31 | 8/3/22 21:31 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500CI E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:41 | 7/27/22 11:41 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:05 | 8/8/22 13:05 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 11:45 | 8/4/22 11:45 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/26/22 11:30

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC13957

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13961 | Aluminum, Total | mg/L | 0.00132 | 0.010 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC13961 | Antimony, Total | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0960 | 0.0980 | 0.0986 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 2.06 | 20.0 |
| BC13961 | Arsenic, Total | mg/L | 0.0000216 | 0.000176 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC13961 | Barium, Total | mg/L | -0.0000117 | 0.00100 | 0.100 | 0.0965 | 0.0976 | 0.0982 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.13 | 20.0 |
| BC13961 | Beryllium, Total | mg/L | 0.0000329 | 0.000880 | 0.100 | 0.103 | 0.107 | 0.108 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC13961 | Boron, Total | mg/L | -0.00120 | 0.0650 | 1.00 | 1.01 | 0.993 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 1.70 | 20.0 |
| BC13961 | Cadmium, Total | mg/L | 0.0000126 | 0.000147 | 0.100 | 0.0978 | 0.0993 | 0.0992 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.52 | 20.0 |
| BC13961 | Calcium, Total | mg/L | -0.00661 | 0.152 | 5.00 | 5.36 | 5.28 | 5.24 | 4.25 to 5.75 | 107 | 70.0 to 130 | 1.50 | 20.0 |
| BC13961 | Chloride | mg/L | 0.0593 | 1.00 | 10.0 | 10.4 | 10.5 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.957 | 20.0 |
| BC13961 | Chromium, Total | mg/L | 0.0000292 | 0.000440 | 0.100 | 0.0988 | 0.101 | 0.0999 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 2.20 | 20.0 |
| BC13961 | Cobalt, Total | mg/L | -0.0000063 | 0.000147 | 0.100 | 0.100 | 0.102 | 0.0999 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13961 | Fluoride | mg/L | -0.0323 | 0.125 | 2.50 | 2.72 | 2.65 | 2.69 | 2.25 to 2.75 | 109 | 80.0 to 120 | 2.61 | 20.0 |
| BC13961 | Iron, Total | mg/L | 7.730E-05 | 0.0176 | 0.2 | 0.216 | 0.214 | 0.213 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC13961 | Lead, Total | mg/L | 0.0000088 | 0.000147 | 0.100 | 0.101 | 0.104 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC13961 | Lithium, Total | mg/L | 0.000117 | 0.0154 | 0.200 | 0.216 | 0.213 | 0.211 | 0.170 to 0.230 | 108 | 70.0 to 130 | 1.40 | 20.0 |
| BC13961 | Magnesium, Total | mg/L | -0.000392 | 0.0462 | 5.00 | 5.39 | 5.29 | 5.25 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.87 | 20.0 |
| BC13961 | Manganese, Total | mg/L | 0.0000209 | 0.0002 | 0.100 | 0.101 | 0.103 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC13961 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00366 | 0.00366 | 0.00372 | 0.00340 to 0.00460 | 91.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Molybdenum, Total | mg/L | -0.0000025 | 0.0002 | 0.100 | 0.0988 | 0.0980 | 0.0963 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.813 | 20.0 |
| BC13961 | Potassium, Total | mg/L | -0.000574 | 0.367 | 10.0 | 10.1 | 9.97 | 10.1 | 8.50 to 11.5 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13961 | Selenium, Total | mg/L | 0.000165 | 0.00100 | 0.100 | 0.100 | 0.102 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13961 | Silicon, Total | mg/L | -0.00285 | 0.0440 | 1.00 | 1.04 | 1.02 | 1.04 | 0.850 to 1.15 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13961 | Sodium, Total | mg/L | -0.00253 | 0.0660 | 5.00 | 5.12 | 5.05 | 5.02 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.38 | 20.0 |
| BC13961 | Sulfate | mg/L | -0.820 | 2.0 | 20.0 | 20.0 | 20.5 | 19.4 | 18.0 to 22.0 | 100 | 80.0 to 120 | 2.47 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/26/22 11:30

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC13957

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | |
|---------|----------------------|-------|-----------|----------|-------|-------|-------|----------|-----------------|------|-------------|------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | Limit |
| BC13961 | Thallium, Total | mg/L | 0.0000019 | 0.000147 | 0.100 | 0.102 | 0.106 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.85 | 20.0 |
| BC13961 | Total Organic Carbon | mg/L | 0.234 | 1.00 | 10.0 | 9.61 | 9.48 | 22.6 | | 96.1 | 80.0 to 120 | 1.36 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/26/22 11:30

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC13957

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------------------|-------------------|------------|-------------|------|---------------|
| BC13961 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 1.99 | -0.004 | 1.83 | 1.80 to 2.20 | 99.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC13959 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 267 | 53.0 | 40.0 to 60.0 | | | 1.49 | 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-33HO

Location Code: WMWGORAP
Collected: 7/26/22 11:48
Customer ID:
Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13958

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/28/22 06:57 | 8/1/22 14:21 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/28/22 06:57 | 8/1/22 14:21 | | 1.015 | 20.1 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 7/28/22 06:57 | 8/1/22 14:21 | | 1.015 | 0.108 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/28/22 06:57 | 8/1/22 14:21 | | 1.015 | 0.0501 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/28/22 06:57 | 8/1/22 14:21 | | 1.015 | 8.12 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/28/22 06:57 | 8/1/22 14:21 | | 1 | 20.1 | mg/L | | | |
| Silicon, Total | 7/28/22 06:57 | 8/1/22 14:21 | | 1.015 | 9.39 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/28/22 06:57 | 8/1/22 14:55 | | 10.15 | 74.2 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 8/3/22 07:26 | 8/3/22 12:30 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Dissolved | 8/3/22 07:26 | 8/3/22 12:30 | | 1.015 | 17.2 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 8/3/22 07:26 | 8/3/22 12:30 | | 1.015 | 0.0908 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 07:26 | 8/3/22 12:30 | | 1.015 | 0.0477 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 07:26 | 8/3/22 12:30 | | 1.015 | 7.55 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 07:26 | 8/3/22 12:30 | | 1 | 19.4 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 07:26 | 8/3/22 12:30 | | 1.015 | 9.05 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 07:26 | 8/3/22 13:16 | | 10.15 | 79.7 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | 0.00816 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | 0.000296 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | 0.356 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | 0.000253 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | 0.0337 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | 0.00194 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | 3.69 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-33HO

Location Code: WMWGORAP
Collected: 7/26/22 11:48
Customer ID:
Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13958

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/28/22 06:57 | 7/28/22 11:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | 0.000234 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | 0.362 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | 0.0324 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | 0.00127 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | 3.15 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/27/22 14:06 | 7/27/22 14:41 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 13:42 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 14:15 | 7/28/22 14:15 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 235 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/27/22 13:35 | 7/28/22 13:37 | | 1 | 263 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 232 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 2.94 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/3/22 21:52 | 8/3/22 21:52 | | 1 | 1.37 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-33HO

Location Code: WMWGORAP

Collected: 7/26/22 11:48

Customer ID:

Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13958

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:38 | 7/27/22 11:38 | | 1 | 14.4 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:06 | 8/8/22 13:06 | | 1 | 0.188 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 11:41 | 8/4/22 11:41 | | 1 | 15.6 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 7/26/22 11:46 | 7/26/22 11:46 | | | 456.21 | uS/cm | | | FA |
| pH | 7/26/22 11:46 | 7/26/22 11:46 | | | 7.43 | SU | | | FA |
| Temperature | 7/26/22 11:46 | 7/26/22 11:46 | | | 21.65 | C | | | FA |
| Turbidity | 7/26/22 11:46 | 7/26/22 11:46 | | | 1.26 | NTU | | | FA |
| Sulfide | 7/26/22 11:46 | 7/26/22 11:46 | | | 2 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 11:48

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-33HO

Laboratory ID Number: BC13958

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13960 | Aluminum, Dissolved | mg/L | -0.000414 | 0.010 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Aluminum, Total | mg/L | 0.00132 | 0.010 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC13960 | Antimony, Dissolved | mg/L | 0.000295 | 0.00100 | 0.100 | 0.0987 | 0.0976 | 0.0879 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 1.12 | 20.0 |
| BC13961 | Antimony, Total | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0960 | 0.0980 | 0.0986 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 2.06 | 20.0 |
| BC13960 | Arsenic, Dissolved | mg/L | -0.0000296 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0984 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Arsenic, Total | mg/L | 0.0000216 | 0.000176 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC13960 | Barium, Dissolved | mg/L | -0.0000698 | 0.00100 | 0.100 | 0.161 | 0.161 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Barium, Total | mg/L | -0.0000117 | 0.00100 | 0.100 | 0.0965 | 0.0976 | 0.0982 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.13 | 20.0 |
| BC13960 | Beryllium, Dissolved | mg/L | 0.0000210 | 0.000880 | 0.100 | 0.101 | 0.0955 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 5.60 | 20.0 |
| BC13961 | Beryllium, Total | mg/L | 0.0000329 | 0.000880 | 0.100 | 0.103 | 0.107 | 0.108 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC13960 | Boron, Dissolved | mg/L | -0.00155 | 0.0650 | 1.00 | 1.12 | 1.17 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 4.37 | 20.0 |
| BC13961 | Boron, Total | mg/L | -0.00120 | 0.0650 | 1.00 | 1.01 | 0.993 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 1.70 | 20.0 |
| BC13960 | Cadmium, Dissolved | mg/L | 0.0000038 | 0.000147 | 0.100 | 0.0977 | 0.100 | 0.101 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 2.33 | 20.0 |
| BC13961 | Cadmium, Total | mg/L | 0.0000126 | 0.000147 | 0.100 | 0.0978 | 0.0993 | 0.0992 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.52 | 20.0 |
| BC13960 | Calcium, Dissolved | mg/L | -0.00772 | 0.152 | 5.00 | 98.0 | 99.8 | 4.84 | 4.25 to 5.75 | 22.0 | 70.0 to 130 | 1.82 | 20.0 |
| BC13961 | Calcium, Total | mg/L | -0.00661 | 0.152 | 5.00 | 5.36 | 5.28 | 5.24 | 4.25 to 5.75 | 107 | 70.0 to 130 | 1.50 | 20.0 |
| BC13961 | Chloride | mg/L | 0.0593 | 1.00 | 10.0 | 10.4 | 10.5 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.957 | 20.0 |
| BC13960 | Chromium, Dissolved | mg/L | -0.0000251 | 0.000440 | 0.100 | 0.0986 | 0.0997 | 0.101 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.11 | 20.0 |
| BC13961 | Chromium, Total | mg/L | 0.0000292 | 0.000440 | 0.100 | 0.0988 | 0.101 | 0.0999 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 2.20 | 20.0 |
| BC13960 | Cobalt, Dissolved | mg/L | -0.0000186 | 0.000147 | 0.100 | 0.0988 | 0.0985 | 0.101 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.304 | 20.0 |
| BC13961 | Cobalt, Total | mg/L | -0.0000063 | 0.000147 | 0.100 | 0.100 | 0.102 | 0.0999 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13961 | Fluoride | mg/L | -0.0323 | 0.125 | 2.50 | 2.72 | 2.65 | 2.69 | 2.25 to 2.75 | 109 | 80.0 to 120 | 2.61 | 20.0 |
| BC13960 | Iron, Dissolved | mg/L | 0.0000091 | 0.0176 | 0.2 | 0.481 | 0.484 | 0.198 | 0.170 to 0.230 | 92.0 | 70.0 to 130 | 0.622 | 20.0 |
| BC13961 | Iron, Total | mg/L | 7.730E-05 | 0.0176 | 0.2 | 0.216 | 0.214 | 0.213 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.930 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 11:48

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-33HO

Laboratory ID Number: BC13958

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13960 | Lead, Dissolved | mg/L | 0.000091 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC13961 | Lead, Total | mg/L | 0.000088 | 0.000147 | 0.100 | 0.101 | 0.104 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC13960 | Lithium, Dissolved | mg/L | 0.000071 | 0.0154 | 0.200 | 0.435 | 0.433 | 0.190 | 0.170 to 0.230 | 123 | 70.0 to 130 | 0.461 | 20.0 |
| BC13961 | Lithium, Total | mg/L | 0.000117 | 0.0154 | 0.200 | 0.216 | 0.213 | 0.211 | 0.170 to 0.230 | 108 | 70.0 to 130 | 1.40 | 20.0 |
| BC13960 | Magnesium, Dissolved | mg/L | 0.00445 | 0.0462 | 5.00 | 35.1 | 35.3 | 4.74 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.568 | 20.0 |
| BC13961 | Magnesium, Total | mg/L | -0.000392 | 0.0462 | 5.00 | 5.39 | 5.29 | 5.25 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.87 | 20.0 |
| BC13960 | Manganese, Dissolved | mg/L | -0.000209 | 0.0002 | 0.100 | 0.308 | 0.310 | 0.104 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.647 | 20.0 |
| BC13961 | Manganese, Total | mg/L | 0.0000209 | 0.0002 | 0.100 | 0.101 | 0.103 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC13961 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00366 | 0.00366 | 0.00372 | 0.00340 to 0.00460 | 91.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC13960 | Molybdenum, Dissolved | mg/L | 0.0000065 | 0.0002 | 0.100 | 0.104 | 0.105 | 0.0989 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 0.957 | 20.0 |
| BC13961 | Molybdenum, Total | mg/L | -0.0000025 | 0.0002 | 0.100 | 0.0988 | 0.0980 | 0.0963 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.813 | 20.0 |
| BC13960 | Potassium, Dissolved | mg/L | 0.00614 | 0.367 | 10.0 | 77.5 | 78.2 | 10.3 | 8.50 to 11.5 | 59.0 | 70.0 to 130 | 0.899 | 20.0 |
| BC13961 | Potassium, Total | mg/L | -0.000574 | 0.367 | 10.0 | 10.1 | 9.97 | 10.1 | 8.50 to 11.5 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13960 | Selenium, Dissolved | mg/L | 0.000340 | 0.00100 | 0.100 | 0.0984 | 0.0977 | 0.0999 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.714 | 20.0 |
| BC13961 | Selenium, Total | mg/L | 0.000165 | 0.00100 | 0.100 | 0.100 | 0.102 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13960 | Silicon, Dissolved | mg/L | 0.000157 | 0.0440 | 1.00 | 6.35 | 6.39 | 0.982 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.628 | 20.0 |
| BC13961 | Silicon, Total | mg/L | -0.00285 | 0.0440 | 1.00 | 1.04 | 1.02 | 1.04 | 0.850 to 1.15 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13960 | Sodium, Dissolved | mg/L | 0.000491 | 0.0660 | 5.00 | 868 | 881 | 4.63 | 4.25 to 5.75 | -900 | 70.0 to 130 | 1.49 | 20.0 |
| BC13961 | Sodium, Total | mg/L | -0.00253 | 0.0660 | 5.00 | 5.12 | 5.05 | 5.02 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.38 | 20.0 |
| BC13961 | Sulfate | mg/L | -0.820 | 2.0 | 20.0 | 20.0 | 20.5 | 19.4 | 18.0 to 22.0 | 100 | 80.0 to 120 | 2.47 | 20.0 |
| BC13960 | Thallium, Dissolved | mg/L | 0.0000020 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Thallium, Total | mg/L | 0.0000019 | 0.000147 | 0.100 | 0.102 | 0.106 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.85 | 20.0 |
| BC13961 | Total Organic Carbon | mg/L | 0.234 | 1.00 | 10.0 | 9.61 | 9.48 | 22.6 | | 96.1 | 80.0 to 120 | 1.36 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 11:48

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-33HO

Laboratory ID Number: BC13958

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC13960 | Alkalinity, Total as CaCO3 | mg/L | | | | | 238 | 50.7 | 45.0 to 55.0 | | | 0.00 | 10.0 |
| BC13961 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 1.99 | -0.004 | 1.83 | 1.80 to 2.20 | 99.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC13959 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 267 | 53.0 | 40.0 to 60.0 | | | 1.49 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-33HO Dup

Location Code: WMWGORAP
Collected: 7/26/22 11:48
Customer ID:
Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13959

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 7/28/22 06:57 | 8/1/22 14:24 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Total | 7/28/22 06:57 | 8/1/22 14:24 | | 1.015 | 20.0 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 7/28/22 06:57 | 8/1/22 14:24 | | 1.015 | 0.109 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Total | 7/28/22 06:57 | 8/1/22 14:24 | | 1.015 | 0.0491 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 7/28/22 06:57 | 8/1/22 14:24 | | 1.015 | 8.10 | mg/L | 0.021315 | 0.406 | | |
| Silica, Total (calc.) | 7/28/22 06:57 | 8/1/22 14:24 | | 1 | 19.9 | mg/L | | | | |
| Silicon, Total | 7/28/22 06:57 | 8/1/22 14:24 | | 1.015 | 9.28 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 7/28/22 06:57 | 8/1/22 14:58 | | 10.15 | 77.7 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 8/3/22 07:26 | 8/3/22 12:32 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U | |
| * Calcium, Dissolved | 8/3/22 07:26 | 8/3/22 12:32 | | 1.015 | 17.4 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 8/3/22 07:26 | 8/3/22 12:32 | | 1.015 | 0.0968 | mg/L | 0.008120 | 0.0406 | | |
| * Lithium, Dissolved | 8/3/22 07:26 | 8/3/22 12:32 | | 1.015 | 0.0477 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 8/3/22 07:26 | 8/3/22 12:32 | | 1.015 | 7.57 | mg/L | 0.021315 | 0.406 | | |
| Silica, Dissolved (calc.) | 8/3/22 07:26 | 8/3/22 12:32 | | 1 | 19.3 | mg/L | | | | |
| Silicon, Dissolved | 8/3/22 07:26 | 8/3/22 12:32 | | 1.015 | 9.02 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 8/3/22 07:26 | 8/3/22 13:19 | | 10.15 | 82.6 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | 0.00789 | mg/L | 0.006090 | 0.01015 | J | |
| * Arsenic, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | 0.000298 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | 0.359 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | 0.000226 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | 0.0332 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | 0.00195 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | 3.66 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-33HO Dup

Location Code: WMWGORAP

Collected: 7/26/22 11:48

Customer ID:

Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13959

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/28/22 06:57 | 7/28/22 11:06 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | 0.000228 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | 0.372 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000203 | 0.001015 | U |
| * Cobalt, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | 0.0319 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | 0.00109 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | 3.01 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/27/22 14:06 | 7/27/22 14:45 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 13:45 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 14:15 | 7/28/22 14:15 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 241 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/27/22 13:35 | 7/28/22 13:37 | | 1 | 271 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 238 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 3.38 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/3/22 22:17 | 8/3/22 22:17 | | 1 | 1.40 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-33HO Dup

Location Code: WMWGORAP

Collected: 7/26/22 11:48

Customer ID:

Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13959

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:42 | 7/27/22 11:42 | | 1 | 14.7 | mg/L | 0.50 | 1 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:07 | 8/8/22 13:07 | | 1 | 0.174 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 11:42 | 8/4/22 11:42 | | 1 | 15.9 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 7/26/22 11:46 | 7/26/22 11:46 | | | 456.21 | uS/cm | | | FA |
| pH | 7/26/22 11:46 | 7/26/22 11:46 | | | 7.43 | SU | | | FA |
| Temperature | 7/26/22 11:46 | 7/26/22 11:46 | | | 21.65 | C | | | FA |
| Turbidity | 7/26/22 11:46 | 7/26/22 11:46 | | | 1.26 | NTU | | | FA |
| Sulfide | 7/26/22 11:46 | 7/26/22 11:46 | | | 2 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 11:48

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-33HO Dup

Laboratory ID Number: BC13959

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13960 | Aluminum, Dissolved | mg/L | -0.000414 | 0.010 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Aluminum, Total | mg/L | 0.00132 | 0.010 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC13960 | Antimony, Dissolved | mg/L | 0.000295 | 0.00100 | 0.100 | 0.0987 | 0.0976 | 0.0879 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 1.12 | 20.0 |
| BC13961 | Antimony, Total | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0960 | 0.0980 | 0.0986 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 2.06 | 20.0 |
| BC13960 | Arsenic, Dissolved | mg/L | -0.0000296 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0984 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Arsenic, Total | mg/L | 0.0000216 | 0.000176 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC13960 | Barium, Dissolved | mg/L | -0.0000698 | 0.00100 | 0.100 | 0.161 | 0.161 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Barium, Total | mg/L | -0.0000117 | 0.00100 | 0.100 | 0.0965 | 0.0976 | 0.0982 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.13 | 20.0 |
| BC13960 | Beryllium, Dissolved | mg/L | 0.0000210 | 0.000880 | 0.100 | 0.101 | 0.0955 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 5.60 | 20.0 |
| BC13961 | Beryllium, Total | mg/L | 0.0000329 | 0.000880 | 0.100 | 0.103 | 0.107 | 0.108 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC13960 | Boron, Dissolved | mg/L | -0.00155 | 0.0650 | 1.00 | 1.12 | 1.17 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 4.37 | 20.0 |
| BC13961 | Boron, Total | mg/L | -0.00120 | 0.0650 | 1.00 | 1.01 | 0.993 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 1.70 | 20.0 |
| BC13960 | Cadmium, Dissolved | mg/L | 0.0000038 | 0.000147 | 0.100 | 0.0977 | 0.100 | 0.101 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 2.33 | 20.0 |
| BC13961 | Cadmium, Total | mg/L | 0.0000126 | 0.000147 | 0.100 | 0.0978 | 0.0993 | 0.0992 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.52 | 20.0 |
| BC13960 | Calcium, Dissolved | mg/L | -0.00772 | 0.152 | 5.00 | 98.0 | 99.8 | 4.84 | 4.25 to 5.75 | 22.0 | 70.0 to 130 | 1.82 | 20.0 |
| BC13961 | Calcium, Total | mg/L | -0.00661 | 0.152 | 5.00 | 5.36 | 5.28 | 5.24 | 4.25 to 5.75 | 107 | 70.0 to 130 | 1.50 | 20.0 |
| BC13961 | Chloride | mg/L | 0.0593 | 1.00 | 10.0 | 10.4 | 10.5 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.957 | 20.0 |
| BC13960 | Chromium, Dissolved | mg/L | -0.0000251 | 0.000440 | 0.100 | 0.0986 | 0.0997 | 0.101 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.11 | 20.0 |
| BC13961 | Chromium, Total | mg/L | 0.0000292 | 0.000440 | 0.100 | 0.0988 | 0.101 | 0.0999 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 2.20 | 20.0 |
| BC13960 | Cobalt, Dissolved | mg/L | -0.0000186 | 0.000147 | 0.100 | 0.0988 | 0.0985 | 0.101 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.304 | 20.0 |
| BC13961 | Cobalt, Total | mg/L | -0.0000063 | 0.000147 | 0.100 | 0.100 | 0.102 | 0.0999 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13961 | Fluoride | mg/L | -0.0323 | 0.125 | 2.50 | 2.72 | 2.65 | 2.69 | 2.25 to 2.75 | 109 | 80.0 to 120 | 2.61 | 20.0 |
| BC13960 | Iron, Dissolved | mg/L | 0.0000091 | 0.0176 | 0.2 | 0.481 | 0.484 | 0.198 | 0.170 to 0.230 | 92.0 | 70.0 to 130 | 0.622 | 20.0 |
| BC13961 | Iron, Total | mg/L | 7.730E-05 | 0.0176 | 0.2 | 0.216 | 0.214 | 0.213 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.930 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 11:48

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-33HO Dup

Laboratory ID Number: BC13959

| Sample | Analysis | Units | MB | MB | | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | | | Standard | Limit | Rec | Limit | | |
| BC13960 | Lead, Dissolved | mg/L | 0.000091 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC13961 | Lead, Total | mg/L | 0.000088 | 0.000147 | 0.100 | 0.101 | 0.104 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC13960 | Lithium, Dissolved | mg/L | 0.000071 | 0.0154 | 0.200 | 0.435 | 0.433 | 0.190 | 0.170 to 0.230 | 123 | 70.0 to 130 | 0.461 | 20.0 |
| BC13961 | Lithium, Total | mg/L | 0.000117 | 0.0154 | 0.200 | 0.216 | 0.213 | 0.211 | 0.170 to 0.230 | 108 | 70.0 to 130 | 1.40 | 20.0 |
| BC13960 | Magnesium, Dissolved | mg/L | 0.00445 | 0.0462 | 5.00 | 35.1 | 35.3 | 4.74 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.568 | 20.0 |
| BC13961 | Magnesium, Total | mg/L | -0.000392 | 0.0462 | 5.00 | 5.39 | 5.29 | 5.25 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.87 | 20.0 |
| BC13960 | Manganese, Dissolved | mg/L | -0.000209 | 0.0002 | 0.100 | 0.308 | 0.310 | 0.104 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.647 | 20.0 |
| BC13961 | Manganese, Total | mg/L | 0.0000209 | 0.0002 | 0.100 | 0.101 | 0.103 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC13961 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00366 | 0.00366 | 0.00372 | 0.00340 to 0.00460 | 91.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC13960 | Molybdenum, Dissolved | mg/L | 0.0000065 | 0.0002 | 0.100 | 0.104 | 0.105 | 0.0989 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 0.957 | 20.0 |
| BC13961 | Molybdenum, Total | mg/L | -0.0000025 | 0.0002 | 0.100 | 0.0988 | 0.0980 | 0.0963 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.813 | 20.0 |
| BC13960 | Potassium, Dissolved | mg/L | 0.00614 | 0.367 | 10.0 | 77.5 | 78.2 | 10.3 | 8.50 to 11.5 | 59.0 | 70.0 to 130 | 0.899 | 20.0 |
| BC13961 | Potassium, Total | mg/L | -0.000574 | 0.367 | 10.0 | 10.1 | 9.97 | 10.1 | 8.50 to 11.5 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13960 | Selenium, Dissolved | mg/L | 0.000340 | 0.00100 | 0.100 | 0.0984 | 0.0977 | 0.0999 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.714 | 20.0 |
| BC13961 | Selenium, Total | mg/L | 0.000165 | 0.00100 | 0.100 | 0.100 | 0.102 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13960 | Silicon, Dissolved | mg/L | 0.000157 | 0.0440 | 1.00 | 6.35 | 6.39 | 0.982 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.628 | 20.0 |
| BC13961 | Silicon, Total | mg/L | -0.00285 | 0.0440 | 1.00 | 1.04 | 1.02 | 1.04 | 0.850 to 1.15 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13960 | Sodium, Dissolved | mg/L | 0.000491 | 0.0660 | 5.00 | 868 | 881 | 4.63 | 4.25 to 5.75 | -900 | 70.0 to 130 | 1.49 | 20.0 |
| BC13961 | Sodium, Total | mg/L | -0.00253 | 0.0660 | 5.00 | 5.12 | 5.05 | 5.02 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.38 | 20.0 |
| BC13961 | Sulfate | mg/L | -0.820 | 2.0 | 20.0 | 20.0 | 20.5 | 19.4 | 18.0 to 22.0 | 100 | 80.0 to 120 | 2.47 | 20.0 |
| BC13960 | Thallium, Dissolved | mg/L | 0.0000020 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Thallium, Total | mg/L | 0.0000019 | 0.000147 | 0.100 | 0.102 | 0.106 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.85 | 20.0 |
| BC13961 | Total Organic Carbon | mg/L | 0.234 | 1.00 | 10.0 | 9.61 | 9.48 | 22.6 | | 96.1 | 80.0 to 120 | 1.36 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 11:48

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-33HO Dup

Laboratory ID Number: BC13959

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC13960 | Alkalinity, Total as CaCO3 | mg/L | | | | | 238 | 50.7 | 45.0 to 55.0 | | | 0.00 | 10.0 |
| BC13961 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 1.99 | -0.004 | 1.83 | 1.80 to 2.20 | 99.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC13959 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 267 | 53.0 | 40.0 to 60.0 | | | 1.49 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-34HO

Location Code: WMWGORAP
Collected: 7/26/22 14:00
Customer ID:
Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13960

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/28/22 06:57 | 8/1/22 14:28 | | 1.015 | 0.109 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Total | 7/28/22 06:57 | 8/1/22 15:01 | | 10.15 | 107 | mg/L | 0.70035 | 4.06 | |
| * Iron, Total | 7/28/22 06:57 | 8/1/22 14:28 | | 1.015 | 0.418 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Total | 7/28/22 06:57 | 8/1/22 14:28 | | 1.015 | 0.183 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/28/22 06:57 | 8/1/22 14:28 | | 1.015 | 30.7 | mg/L | 0.021315 | 0.406 | |
| Silica, Total (calc.) | 7/28/22 06:57 | 8/1/22 14:28 | | 1 | 12.3 | mg/L | | | |
| Silicon, Total | 7/28/22 06:57 | 8/1/22 14:28 | | 1.015 | 5.74 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/28/22 06:57 | 8/1/22 15:25 | | 101.5 | 843 | mg/L | 3.045 | 40.6 | |
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | | | | | |
| * Boron, Dissolved | 8/3/22 07:26 | 8/3/22 12:35 | | 1.015 | 0.107 | mg/L | 0.030000 | 0.1015 | |
| * Calcium, Dissolved | 8/3/22 07:26 | 8/3/22 13:22 | | 101.5 | 96.9 | mg/L | 7.0035 | 40.6 | RA |
| * Iron, Dissolved | 8/3/22 07:26 | 8/3/22 12:35 | | 1.015 | 0.297 | mg/L | 0.008120 | 0.0406 | |
| * Lithium, Dissolved | 8/3/22 07:26 | 8/3/22 12:35 | | 1.015 | 0.189 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 8/3/22 07:26 | 8/3/22 12:35 | | 1.015 | 30.1 | mg/L | 0.021315 | 0.406 | |
| Silica, Dissolved (calc.) | 8/3/22 07:26 | 8/3/22 12:35 | | 1 | 11.4 | mg/L | | | |
| Silicon, Dissolved | 8/3/22 07:26 | 8/3/22 12:35 | | 1.015 | 5.34 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 8/3/22 07:26 | 8/3/22 13:22 | | 101.5 | 913 | mg/L | 3.045 | 40.6 | RA |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | 0.000570 | mg/L | 0.000508 | 0.001015 | J |
| * Aluminum, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | 0.00815 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | 0.00117 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | 0.0559 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | 0.000307 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | 0.209 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | 0.0104 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | 72.1 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-34HO

Location Code: WMWGORAP
Collected: 7/26/22 14:00
Customer ID:
Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13960

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|----|
| * Selenium, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/28/22 06:57 | 7/28/22 11:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | 0.000803 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | 0.0549 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | 0.000277 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | 0.211 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | 0.00568 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | 71.6 | mg/L | 0.169505 | 0.5075 | RA |
| * Selenium, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Dissolved | 7/27/22 14:06 | 7/27/22 14:49 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: ELH | | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 13:47 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 14:16 | 7/28/22 14:16 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 238 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/27/22 13:35 | 7/28/22 13:37 | | 1 | 2990 | mg/L | | 227.3 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 237 | mg/L | | 1 | A |
| Carbonate Alkalinity, (calc.) | 7/29/22 13:18 | 7/29/22 14:04 | | 1 | 0.93 | mg/L | | 0.5 | A |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/3/22 22:39 | 8/3/22 22:39 | | 1 | 7.54 | mg/L | 1.00 | 2 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-34HO

Location Code: WMWGORAP
Collected: 7/26/22 14:00
Customer ID:
Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13960

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-----|---------|-------|-------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:47 | 7/27/22 11:47 | | 100 | 496 | mg/L | 50.00 | 100 | |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:08 | 8/8/22 13:08 | | 1 | 0.393 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 11:50 | 8/4/22 11:50 | | 80 | 1420 | mg/L | 48.0 | 160 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 7/26/22 13:55 | 7/26/22 13:55 | | | 4469.38 | uS/cm | | | FA |
| pH | 7/26/22 13:55 | 7/26/22 13:55 | | | 7.06 | SU | | | FA |
| Temperature | 7/26/22 13:55 | 7/26/22 13:55 | | | 23.81 | C | | | FA |
| Turbidity | 7/26/22 13:55 | 7/26/22 13:55 | | | 4.01 | NTU | | | FA |
| Sulfide | 7/26/22 13:55 | 7/26/22 13:55 | | | 2 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 14:00

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-34HO

Laboratory ID Number: BC13960

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13960 | Aluminum, Dissolved | mg/L | -0.000414 | 0.010 | 0.100 | 0.106 | 0.106 | 0.105 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Aluminum, Total | mg/L | 0.00132 | 0.010 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC13960 | Antimony, Dissolved | mg/L | 0.000295 | 0.00100 | 0.100 | 0.0987 | 0.0976 | 0.0879 | 0.0850 to 0.115 | 98.7 | 70.0 to 130 | 1.12 | 20.0 |
| BC13961 | Antimony, Total | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0960 | 0.0980 | 0.0986 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 2.06 | 20.0 |
| BC13960 | Arsenic, Dissolved | mg/L | -0.0000296 | 0.000176 | 0.100 | 0.101 | 0.101 | 0.0984 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Arsenic, Total | mg/L | 0.0000216 | 0.000176 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC13960 | Barium, Dissolved | mg/L | -0.0000698 | 0.00100 | 0.100 | 0.161 | 0.161 | 0.101 | 0.0850 to 0.115 | 106 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Barium, Total | mg/L | -0.0000117 | 0.00100 | 0.100 | 0.0965 | 0.0976 | 0.0982 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.13 | 20.0 |
| BC13960 | Beryllium, Dissolved | mg/L | 0.0000210 | 0.000880 | 0.100 | 0.101 | 0.0955 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 5.60 | 20.0 |
| BC13961 | Beryllium, Total | mg/L | 0.0000329 | 0.000880 | 0.100 | 0.103 | 0.107 | 0.108 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC13960 | Boron, Dissolved | mg/L | -0.00155 | 0.0650 | 1.00 | 1.12 | 1.17 | 1.01 | 0.850 to 1.15 | 101 | 70.0 to 130 | 4.37 | 20.0 |
| BC13961 | Boron, Total | mg/L | -0.00120 | 0.0650 | 1.00 | 1.01 | 0.993 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 1.70 | 20.0 |
| BC13960 | Cadmium, Dissolved | mg/L | 0.0000038 | 0.000147 | 0.100 | 0.0977 | 0.100 | 0.101 | 0.0850 to 0.115 | 97.7 | 70.0 to 130 | 2.33 | 20.0 |
| BC13961 | Cadmium, Total | mg/L | 0.0000126 | 0.000147 | 0.100 | 0.0978 | 0.0993 | 0.0992 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.52 | 20.0 |
| BC13960 | Calcium, Dissolved | mg/L | -0.00772 | 0.152 | 5.00 | 98.0 | 99.8 | 4.84 | 4.25 to 5.75 | 22.0 | 70.0 to 130 | 1.82 | 20.0 |
| BC13961 | Calcium, Total | mg/L | -0.00661 | 0.152 | 5.00 | 5.36 | 5.28 | 5.24 | 4.25 to 5.75 | 107 | 70.0 to 130 | 1.50 | 20.0 |
| BC13961 | Chloride | mg/L | 0.0593 | 1.00 | 10.0 | 10.4 | 10.5 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.957 | 20.0 |
| BC13960 | Chromium, Dissolved | mg/L | -0.0000251 | 0.000440 | 0.100 | 0.0986 | 0.0997 | 0.101 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 1.11 | 20.0 |
| BC13961 | Chromium, Total | mg/L | 0.0000292 | 0.000440 | 0.100 | 0.0988 | 0.101 | 0.0999 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 2.20 | 20.0 |
| BC13960 | Cobalt, Dissolved | mg/L | -0.0000186 | 0.000147 | 0.100 | 0.0988 | 0.0985 | 0.101 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.304 | 20.0 |
| BC13961 | Cobalt, Total | mg/L | -0.0000063 | 0.000147 | 0.100 | 0.100 | 0.102 | 0.0999 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13961 | Fluoride | mg/L | -0.0323 | 0.125 | 2.50 | 2.72 | 2.65 | 2.69 | 2.25 to 2.75 | 109 | 80.0 to 120 | 2.61 | 20.0 |
| BC13960 | Iron, Dissolved | mg/L | 0.0000091 | 0.0176 | 0.2 | 0.481 | 0.484 | 0.198 | 0.170 to 0.230 | 92.0 | 70.0 to 130 | 0.622 | 20.0 |
| BC13961 | Iron, Total | mg/L | 7.730E-05 | 0.0176 | 0.2 | 0.216 | 0.214 | 0.213 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.930 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 14:00

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-34HO

Laboratory ID Number: BC13960

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13960 | Lead, Dissolved | mg/L | 0.000091 | 0.000147 | 0.100 | 0.104 | 0.106 | 0.108 | 0.0850 to 0.115 | 104 | 70.0 to 130 | 1.90 | 20.0 |
| BC13961 | Lead, Total | mg/L | 0.000088 | 0.000147 | 0.100 | 0.101 | 0.104 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC13960 | Lithium, Dissolved | mg/L | 0.000071 | 0.0154 | 0.200 | 0.435 | 0.433 | 0.190 | 0.170 to 0.230 | 123 | 70.0 to 130 | 0.461 | 20.0 |
| BC13961 | Lithium, Total | mg/L | 0.000117 | 0.0154 | 0.200 | 0.216 | 0.213 | 0.211 | 0.170 to 0.230 | 108 | 70.0 to 130 | 1.40 | 20.0 |
| BC13960 | Magnesium, Dissolved | mg/L | 0.00445 | 0.0462 | 5.00 | 35.1 | 35.3 | 4.74 | 4.25 to 5.75 | 100 | 70.0 to 130 | 0.568 | 20.0 |
| BC13961 | Magnesium, Total | mg/L | -0.000392 | 0.0462 | 5.00 | 5.39 | 5.29 | 5.25 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.87 | 20.0 |
| BC13960 | Manganese, Dissolved | mg/L | -0.000209 | 0.0002 | 0.100 | 0.308 | 0.310 | 0.104 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 0.647 | 20.0 |
| BC13961 | Manganese, Total | mg/L | 0.0000209 | 0.0002 | 0.100 | 0.101 | 0.103 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC13961 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00366 | 0.00366 | 0.00372 | 0.00340 to 0.00460 | 91.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC13960 | Molybdenum, Dissolved | mg/L | 0.0000065 | 0.0002 | 0.100 | 0.104 | 0.105 | 0.0989 | 0.0850 to 0.115 | 98.3 | 70.0 to 130 | 0.957 | 20.0 |
| BC13961 | Molybdenum, Total | mg/L | -0.0000025 | 0.0002 | 0.100 | 0.0988 | 0.0980 | 0.0963 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.813 | 20.0 |
| BC13960 | Potassium, Dissolved | mg/L | 0.00614 | 0.367 | 10.0 | 77.5 | 78.2 | 10.3 | 8.50 to 11.5 | 59.0 | 70.0 to 130 | 0.899 | 20.0 |
| BC13961 | Potassium, Total | mg/L | -0.000574 | 0.367 | 10.0 | 10.1 | 9.97 | 10.1 | 8.50 to 11.5 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13960 | Selenium, Dissolved | mg/L | 0.000340 | 0.00100 | 0.100 | 0.0984 | 0.0977 | 0.0999 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.714 | 20.0 |
| BC13961 | Selenium, Total | mg/L | 0.000165 | 0.00100 | 0.100 | 0.100 | 0.102 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13960 | Silicon, Dissolved | mg/L | 0.000157 | 0.0440 | 1.00 | 6.35 | 6.39 | 0.982 | 0.850 to 1.15 | 101 | 70.0 to 130 | 0.628 | 20.0 |
| BC13961 | Silicon, Total | mg/L | -0.00285 | 0.0440 | 1.00 | 1.04 | 1.02 | 1.04 | 0.850 to 1.15 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13960 | Sodium, Dissolved | mg/L | 0.000491 | 0.0660 | 5.00 | 868 | 881 | 4.63 | 4.25 to 5.75 | -900 | 70.0 to 130 | 1.49 | 20.0 |
| BC13961 | Sodium, Total | mg/L | -0.00253 | 0.0660 | 5.00 | 5.12 | 5.05 | 5.02 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.38 | 20.0 |
| BC13961 | Sulfate | mg/L | -0.820 | 2.0 | 20.0 | 20.0 | 20.5 | 19.4 | 18.0 to 22.0 | 100 | 80.0 to 120 | 2.47 | 20.0 |
| BC13960 | Thallium, Dissolved | mg/L | 0.0000020 | 0.000147 | 0.100 | 0.107 | 0.107 | 0.109 | 0.0850 to 0.115 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Thallium, Total | mg/L | 0.0000019 | 0.000147 | 0.100 | 0.102 | 0.106 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.85 | 20.0 |
| BC13961 | Total Organic Carbon | mg/L | 0.234 | 1.00 | 10.0 | 9.61 | 9.48 | 22.6 | | 96.1 | 80.0 to 120 | 1.36 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/26/22 14:00

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond - MW-34HO

Laboratory ID Number: BC13960

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|------|----------|-------|------|------------------|----------|----------------|------|-------------|------|------------|
| BC13960 | Alkalinity, Total as CaCO3 | mg/L | | | | | 238 | 50.7 | 45.0 to 55.0 | | | 0.00 | 10.0 |
| BC13961 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 1.99 | -0.004 | 1.83 | 1.80 to 2.20 | 99.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC13960 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 2920 | 53.0 | 40.0 to 60.0 | | | 2.37 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB
Collected: 7/26/22 14:15
Customer ID:
Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13961

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/28/22 06:57 | 8/1/22 14:31 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/28/22 06:57 | 8/1/22 14:31 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 7/28/22 06:57 | 8/1/22 14:31 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 7/28/22 06:57 | 8/1/22 14:31 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 7/28/22 06:57 | 8/1/22 14:31 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 7/28/22 06:57 | 8/1/22 14:31 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 7/28/22 06:57 | 8/1/22 14:31 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 7/28/22 06:57 | 8/1/22 14:31 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | 0.000332 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U |
| * Molybdenum, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/28/22 06:57 | 7/28/22 11:13 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: ELH | | | | | | |
| * Mercury, Total by CVAA | 8/10/22 10:40 | 8/10/22 13:49 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: CES | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/28/22 14:17 | 7/28/22 14:17 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 7/27/22 13:35 | 7/28/22 13:37 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB

Collected: 7/26/22 14:15

Customer ID:

Submittal Date: 7/27/22 10:50

Laboratory ID Number: BC13961

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 8/3/22 23:02 | 8/3/22 23:02 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500CI E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:44 | 7/27/22 11:44 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: JCC | | | | | | | |
| * Fluoride | 8/8/22 13:10 | 8/8/22 13:10 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 11:46 | 8/4/22 11:46 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 7/26/22 14:15

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC13961

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13961 | Aluminum, Total | mg/L | 0.00132 | 0.010 | 0.100 | 0.101 | 0.102 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.985 | 20.0 |
| BC13961 | Antimony, Total | mg/L | 0.000257 | 0.00100 | 0.100 | 0.0960 | 0.0980 | 0.0986 | 0.0850 to 0.115 | 96.0 | 70.0 to 130 | 2.06 | 20.0 |
| BC13961 | Arsenic, Total | mg/L | 0.0000216 | 0.000176 | 0.100 | 0.100 | 0.101 | 0.101 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 0.995 | 20.0 |
| BC13961 | Barium, Total | mg/L | -0.0000117 | 0.00100 | 0.100 | 0.0965 | 0.0976 | 0.0982 | 0.0850 to 0.115 | 96.5 | 70.0 to 130 | 1.13 | 20.0 |
| BC13961 | Beryllium, Total | mg/L | 0.0000329 | 0.000880 | 0.100 | 0.103 | 0.107 | 0.108 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 3.81 | 20.0 |
| BC13961 | Boron, Total | mg/L | -0.00120 | 0.0650 | 1.00 | 1.01 | 0.993 | 1.00 | 0.850 to 1.15 | 101 | 70.0 to 130 | 1.70 | 20.0 |
| BC13961 | Cadmium, Total | mg/L | 0.0000126 | 0.000147 | 0.100 | 0.0978 | 0.0993 | 0.0992 | 0.0850 to 0.115 | 97.8 | 70.0 to 130 | 1.52 | 20.0 |
| BC13961 | Calcium, Total | mg/L | -0.00661 | 0.152 | 5.00 | 5.36 | 5.28 | 5.24 | 4.25 to 5.75 | 107 | 70.0 to 130 | 1.50 | 20.0 |
| BC13961 | Chloride | mg/L | 0.0593 | 1.00 | 10.0 | 10.4 | 10.5 | 10.3 | 9.00 to 11.0 | 104 | 80.0 to 120 | 0.957 | 20.0 |
| BC13961 | Chromium, Total | mg/L | 0.0000292 | 0.000440 | 0.100 | 0.0988 | 0.101 | 0.0999 | 0.0850 to 0.115 | 98.5 | 70.0 to 130 | 2.20 | 20.0 |
| BC13961 | Cobalt, Total | mg/L | -0.0000063 | 0.000147 | 0.100 | 0.100 | 0.102 | 0.0999 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13961 | Fluoride | mg/L | -0.0323 | 0.125 | 2.50 | 2.72 | 2.65 | 2.69 | 2.25 to 2.75 | 109 | 80.0 to 120 | 2.61 | 20.0 |
| BC13961 | Iron, Total | mg/L | 7.730E-05 | 0.0176 | 0.2 | 0.216 | 0.214 | 0.213 | 0.170 to 0.230 | 108 | 70.0 to 130 | 0.930 | 20.0 |
| BC13961 | Lead, Total | mg/L | 0.0000088 | 0.000147 | 0.100 | 0.101 | 0.104 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 2.93 | 20.0 |
| BC13961 | Lithium, Total | mg/L | 0.000117 | 0.0154 | 0.200 | 0.216 | 0.213 | 0.211 | 0.170 to 0.230 | 108 | 70.0 to 130 | 1.40 | 20.0 |
| BC13961 | Magnesium, Total | mg/L | -0.000392 | 0.0462 | 5.00 | 5.39 | 5.29 | 5.25 | 4.25 to 5.75 | 108 | 70.0 to 130 | 1.87 | 20.0 |
| BC13961 | Manganese, Total | mg/L | 0.0000209 | 0.0002 | 0.100 | 0.101 | 0.103 | 0.102 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.96 | 20.0 |
| BC13961 | Mercury, Total by CVAA | mg/L | 2.310E-06 | 0.000500 | 0.004 | 0.00366 | 0.00366 | 0.00372 | 0.00340 to 0.00460 | 91.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC13961 | Molybdenum, Total | mg/L | -0.0000025 | 0.0002 | 0.100 | 0.0988 | 0.0980 | 0.0963 | 0.0850 to 0.115 | 98.8 | 70.0 to 130 | 0.813 | 20.0 |
| BC13961 | Potassium, Total | mg/L | -0.000574 | 0.367 | 10.0 | 10.1 | 9.97 | 10.1 | 8.50 to 11.5 | 101 | 70.0 to 130 | 1.30 | 20.0 |
| BC13961 | Selenium, Total | mg/L | 0.000165 | 0.00100 | 0.100 | 0.100 | 0.102 | 0.100 | 0.0850 to 0.115 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13961 | Silicon, Total | mg/L | -0.00285 | 0.0440 | 1.00 | 1.04 | 1.02 | 1.04 | 0.850 to 1.15 | 104 | 70.0 to 130 | 1.94 | 20.0 |
| BC13961 | Sodium, Total | mg/L | -0.00253 | 0.0660 | 5.00 | 5.12 | 5.05 | 5.02 | 4.25 to 5.75 | 102 | 70.0 to 130 | 1.38 | 20.0 |
| BC13961 | Sulfate | mg/L | -0.820 | 2.0 | 20.0 | 20.0 | 20.5 | 19.4 | 18.0 to 22.0 | 100 | 80.0 to 120 | 2.47 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 7/26/22 14:15

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC13961

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | |
|---------|----------------------|-------|-----------|----------|-------|-------|-------|----------|-----------------|------|-------------|------|-------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | Limit |
| BC13961 | Thallium, Total | mg/L | 0.0000019 | 0.000147 | 0.100 | 0.102 | 0.106 | 0.104 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 3.85 | 20.0 |
| BC13961 | Total Organic Carbon | mg/L | 0.234 | 1.00 | 10.0 | 9.61 | 9.48 | 22.6 | | 96.1 | 80.0 to 120 | 1.36 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 7/26/22 14:15

Customer ID:

Delivery Date: 7/27/22 10:50

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC13961

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard Standard | Standard Limit | Rec Rec | Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|------|-------------|-------|------|---------------------|----------------------|-------------------|------------|-------------|------|---------------|
| BC13961 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.00 | 0.200 | 2.00 | 1.99 | -0.004 | 1.83 | 1.80 to 2.20 | 99.5 | 90.0 to 110 | 0.00 | 15.0 |
| BC13959 | Solids, Dissolved | mg/L | 1.00 | 25.0 | | | 267 | 53.0 | 40.0 to 60.0 | | | 1.49 | 10.0 |

Comments:

Project Number: WMWGORAP_1379

| Abbreviation | Description |
|--------------|---|
| DF | Dilution Factor |
| LCS | Lab Control Sample |
| LFM | Lab Fortified Matrix |
| MB | Method Blank |
| MDL | Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero. |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| Prec | Precision (% RPD) |
| Q | Qualifier; comment used to note deviations or additional information associated with analytical results. |
| QC | Quality Control |
| Rec | Recovery of Matrix Spike |
| RL | Reporting Limit; lowest concentration at which an analyte can be quantitatively measured. |
| Vio Spec | Violation Specification; regulatory limit which has been exceeded by the sample analyzed. |

| Qualifier | Description |
|-----------|--|
| A | Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L. |
| FA | Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative. |
| J | Reported value is an estimate because concentration is less than reporting limit. |
| RA | Matrix spike is invalid due to sample concentration. |
| U | Compound was analyzed, but not detected. |



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|----------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Anthony Goggins | | Requested By: Greg Dyer |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | | | | | |
|---------|---|------------------|--------|---|---------------------|--------|---|----------------|--------|---|-----|-----|
| Bottles | 1 | Metals | 500 mL | 3 | Hg | 250 mL | 5 | TDS/Alkalinity | 500 mL | 7 | N/A | N/A |
| | 2 | Dissolved Metals | 500 mL | 4 | Nitrite/Nitrate;TOC | 250 mL | 6 | Anions | 250 mL | 8 | N/A | N/A |

Comments: Sample date for EB-1 corrected to 7/26/2022. RJ

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|-------------|------------|-------|--------------|------------------|------------|---------|
| MW-35HO | 07/25/2022 | 15:10 | 6 | Groundwater | | BC13956 |
| FB-1 | 07/26/2022 | 11:30 | 5 | Field Blank | | BC13957 |
| MW-33HO | 07/26/2022 | 11:48 | 6 | Groundwater | | BC13958 |
| MW-33HO DUP | 07/26/2022 | 11:48 | 6 | Sample Duplicate | | BC13959 |
| MW-34HO | 07/26/2022 | 14:00 | 6 | Groundwater | | BC13960 |
| EB-1 | 07/26/2022 | 14:15 | 5 | Equipment Blank | | BC13961 |
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| Relinquished By | Received By | Date/Time |
|------------------------|------------------|------------------|
| <i>Anthony Goggins</i> | <i>Greg Dyer</i> | 07/27/2022 08:24 |
| | | |
| | | |

| | | |
|----------------|------------------|---|
| SmarTroll ID | 7586-41442-5-1 | All pH requirements have been met <input checked="" type="checkbox"/> |
| Turbidity ID | 9981-57211-3-1 | |
| Sample Event | 1379 | |
| | | |
| Cooler Temp | 1.8 °C | |
| Thermometer ID | 7044-38282-2-2 | |
| pH Strip ID | 10275-59506-10-2 | |

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets.
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

| | | | |
|-------------------------|----------------------------|------------|--------------------------|
| Requested Complete Date | Routine | Results To | Dustin Brooks, Greg Dyer |
| | Collector: Anthony Goggins | | Requested By |
| | | Location | Gorgas Ash Pond |

| | | | | | | | | |
|---------|----------|-----|-------|-----|-------|-----|-------|-----|
| Bottles | 1 Radium | 1 L | 3 N/A | N/A | 5 N/A | N/A | 7 N/A | N/A |
| | 2 N/A | N/A | 4 N/A | N/A | 6 N/A | N/A | 8 N/A | N/A |

Comments: MS/MSD Collected @ MW-35HO; Sample date for EB-1 corrected to 7/26/2022. RJ

| Sample # | Date | Time | Bottle Count | Description | Lab Filter | Lab Id |
|-------------|------------|-------|--------------|------------------|------------|---------|
| MW-35HO | 07/25/2022 | 15:10 | 3 | Groundwater | | BC13962 |
| FB-1 | 07/26/2022 | 11:30 | 1 | Field Blank | | BC13963 |
| MW-33HO | 07/26/2022 | 11:48 | 1 | Groundwater | | BC13964 |
| MW-33HO DUP | 07/26/2022 | 11:48 | 1 | Sample Duplicate | | BC13965 |
| MW-34HO | 07/26/2022 | 14:00 | 1 | Groundwater | | BC13966 |
| EB-1 | 07/26/2022 | 14:15 | 1 | Equipment Blank | | BC13967 |
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|------------------------|------------------|------------------|
| Relinquished By | Received By | Date/Time |
| <i>Anthony Goggins</i> | <i>Greg Dyer</i> | 07/27/2022 08:24 |
| | | |
| | | |

| | | |
|----------------|------------------|---|
| SmarTroll ID | 7586-41442-5-1 | All pH requirements have been met <input checked="" type="checkbox"/> |
| Turbidity ID | 9981-57211-3-1 | |
| Sample Event | 1379 | |
| Cooler Temp | N/A | |
| Thermometer ID | N/A | |
| pH Strip ID | 10275-59506-10-2 | |

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

August 31, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGORAP_1379
Pace Project No.: 30510112

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on August 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGORAP_1379
Pace Project No.: 30510112

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1379

Pace Project No.: 30510112

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------------|--------|----------------|----------------|
| 30510112001 | BC13962 MW-35HO | Water | 07/25/22 15:10 | 08/01/22 10:45 |
| 30510112002 | BC13962 MW-35HO MS | Water | 07/25/22 15:10 | 08/01/22 10:45 |
| 30510112003 | BC13962 MW-35HO MSD | Water | 07/25/22 15:10 | 08/01/22 10:45 |
| 30510112004 | BC13963 FB-1 | Water | 07/26/22 11:30 | 08/01/22 10:45 |
| 30510112005 | BC13964 MW-33HO | Water | 07/26/22 11:48 | 08/01/22 10:45 |
| 30510112006 | BC13965 MW-33HO DUP | Water | 07/26/22 11:48 | 08/01/22 10:45 |
| 30510112007 | BC13966 MW-34HO | Water | 07/26/22 14:00 | 08/01/22 10:45 |
| 30510112008 | BC13967 EB-1 | Water | 07/26/22 14:15 | 08/01/22 10:45 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1379
Pace Project No.: 30510112

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------------|--------------------------|----------|-------------------|------------|
| 30510112001 | BC13962 MW-35HO | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30510112002 | BC13962 MW-35HO MS | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30510112003 | BC13962 MW-35HO MSD | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30510112004 | BC13963 FB-1 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30510112005 | BC13964 MW-33HO | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30510112006 | BC13965 MW-33HO DUP | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30510112007 | BC13966 MW-34HO | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30510112008 | BC13967 EB-1 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1379

Pace Project No.: 30510112

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: August 31, 2022

General Information:

8 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1379

Pace Project No.: 30510112

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: August 31, 2022

General Information:

8 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1379
Pace Project No.: 30510112

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Alabama Power
Date: August 31, 2022

General Information:

6 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1379

Pace Project No.: 30510112

Sample: BC13962 MW-35HO **Lab ID: 30510112001** Collected: 07/25/22 15:10 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.132U ± 0.144 (0.287) C:90% T:NA | pCi/L | 08/29/22 11:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.550U ± 0.342 (0.641) C:76% T:96% | pCi/L | 08/25/22 11:36 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.682U ± 0.486 (0.928) | pCi/L | 08/29/22 16:17 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1379

Pace Project No.: 30510112

Sample: BC13962 MW-35HO MS **Lab ID: 30510112002** Collected: 07/25/22 15:10 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 111.41 %REC ± NA (NA) C:NA T:NA | pCi/L | 08/29/22 12:32 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 91.20 %REC ± NA (NA) C:NA T:NA | pCi/L | 08/25/22 11:35 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1379

Pace Project No.: 30510112

Sample: BC13962 MW-35HO MSD **Lab ID: 30510112003** Collected: 07/25/22 15:10 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 92.42 %REC 18.63RPD ± NA (NA) C:NA T:NA | pCi/L | 08/29/22 12:31 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 89.34 %REC 2.05 RPD ± NA (NA) C:NA T:NA | pCi/L | 08/25/22 11:35 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1379

Pace Project No.: 30510112

Sample: BC13963 FB-1 **Lab ID: 30510112004** Collected: 07/26/22 11:30 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.166U ± 0.186 (0.361) C:94% T:NA | pCi/L | 08/29/22 14:21 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.488U ± 0.361 (0.702) C:74% T:87% | pCi/L | 08/25/22 11:36 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.654U ± 0.547 (1.06) | pCi/L | 08/29/22 16:17 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1379

Pace Project No.: 30510112

Sample: BC13964 MW-33HO **Lab ID: 30510112005** Collected: 07/26/22 11:48 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0733U ± 0.183 (0.441) C:90% T:NA | pCi/L | 08/29/22 14:21 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.698 ± 0.369 (0.642) C:74% T:89% | pCi/L | 08/25/22 11:36 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.771U ± 0.552 (1.08) | pCi/L | 08/29/22 16:17 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1379

Pace Project No.: 30510112

Sample: BC13965 MW-33HO DUP **Lab ID: 30510112006** Collected: 07/26/22 11:48 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.138U ± 0.217 (0.476) C:89% T:NA | pCi/L | 08/29/22 14:21 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.892 ± 0.381 (0.606) C:76% T:96% | pCi/L | 08/25/22 11:36 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.03U ± 0.598 (1.08) | pCi/L | 08/29/22 16:17 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1379

Pace Project No.: 30510112

Sample: BC13966 MW-34HO **Lab ID: 30510112007** Collected: 07/26/22 14:00 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.109U ± 0.142 (0.280) C:103% T:NA | pCi/L | 08/29/22 14:22 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.792 ± 0.395 (0.668) C:71% T:88% | pCi/L | 08/25/22 11:37 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.901U ± 0.537 (0.948) | pCi/L | 08/29/22 16:17 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1379

Pace Project No.: 30510112

Sample: BC13967 EB-1 **Lab ID: 30510112008** Collected: 07/26/22 14:15 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0195U ± 0.131 (0.356) C:96% T:NA | pCi/L | 08/29/22 15:55 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.616U ± 0.359 (0.645) C:72% T:92% | pCi/L | 08/25/22 11:37 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.636U ± 0.490 (1.00) | pCi/L | 08/30/22 16:42 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGORAP_1379
Pace Project No.: 30510112

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1379
Pace Project No.: 30510112

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------|--------------------------|----------|-------------------|------------------|
| 30510112001 | BC13962 MW-35HO | EPA 9315 | 522973 | | |
| 30510112002 | BC13962 MW-35HO MS | EPA 9315 | 522973 | | |
| 30510112003 | BC13962 MW-35HO MSD | EPA 9315 | 522973 | | |
| 30510112004 | BC13963 FB-1 | EPA 9315 | 522973 | | |
| 30510112005 | BC13964 MW-33HO | EPA 9315 | 522973 | | |
| 30510112006 | BC13965 MW-33HO DUP | EPA 9315 | 522973 | | |
| 30510112007 | BC13966 MW-34HO | EPA 9315 | 522973 | | |
| 30510112008 | BC13967 EB-1 | EPA 9315 | 522973 | | |
| 30510112001 | BC13962 MW-35HO | EPA 9320 | 523291 | | |
| 30510112002 | BC13962 MW-35HO MS | EPA 9320 | 523291 | | |
| 30510112003 | BC13962 MW-35HO MSD | EPA 9320 | 523291 | | |
| 30510112004 | BC13963 FB-1 | EPA 9320 | 523291 | | |
| 30510112005 | BC13964 MW-33HO | EPA 9320 | 523291 | | |
| 30510112006 | BC13965 MW-33HO DUP | EPA 9320 | 523291 | | |
| 30510112007 | BC13966 MW-34HO | EPA 9320 | 523291 | | |
| 30510112008 | BC13967 EB-1 | EPA 9320 | 523291 | | |
| 30510112001 | BC13962 MW-35HO | Total Radium Calculation | 529163 | | |
| 30510112004 | BC13963 FB-1 | Total Radium Calculation | 529163 | | |
| 30510112005 | BC13964 MW-33HO | Total Radium Calculation | 529163 | | |
| 30510112006 | BC13965 MW-33HO DUP | Total Radium Calculation | 529163 | | |
| 30510112007 | BC13966 MW-34HO | Total Radium Calculation | 529163 | | |
| 30510112008 | BC13967 EB-1 | Total Radium Calculation | 529473 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | | | | |
|-------------------------------------|---------------------------------------|---------------------------------------|--|-----------------------------|--|
| Section A | | Section B | | Section C | |
| Required Client Information: | | Required Project Information: | | Invoice Information: | |
| Company: Alabama Power Company | Report To: Renee Jernigan | Attention: Renee Jernigan | | | |
| Address: 744 Highway 87 GSC Bldg #8 | Copy To: Brooke Caton & Blaine Denton | Company Name: Alabama Power Co. | | | |
| Calera, AL 35040 | | Address: 744 Highway 87 GSC Bldg #8 | | | |
| Email To: rgamer@southernmco.com | Purchase Order #: APC10755638 | CCR | | | |
| Phone: 205-664-6247 Fax: | Project Name: Plant Gorgas Ash Pond | Pace Project Manager: Skyler Richmond | | | |
| Requested Due Date: Normal | Project Number: WNWGORAP_1379 | Pace Profile #: 16788 | | | |

| ITEM # | Description | Station Name Location Code | Site Name Facility ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G-GRAB C-COMP) | COLLECTED | | Requested Analyte Filtered (Y/N) | Preservatives | Analyses Test | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) |
|--------|---------------------|----------------------------|-----------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|-------|----------------------------------|---------------|---------------|----------|----------|------------------|---------------|-------------------------|
| | | | | | | | | | DATE | TIME | | | | | | | | |
| 1 | BC13962 MW-35HO | APCO-GS-AP-MW-35HO | APCO_Gorgas_AshPond | | X | | GW | G | 7/25/2022 | 15:10 | | X | X | X | X | | | |
| 2 | BC13963 FB-1 | APCO-GS-AP-FB-01 | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 11:30 | | X | X | X | X | | | |
| 3 | BC13964 MW-33HO | APCO-GS-AP-MW-33HO | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 11:48 | | X | X | X | X | | | |
| 4 | BC13965 MW-33HO DUP | APCO-GS-AP-MW-33HO | APCO_Gorgas_AshPond | X | | | GW | G | 7/26/2022 | 11:48 | | X | X | X | X | | | |
| 5 | BC13966 MW-34HO | APCO-GS-AP-MW-34HO | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 14:00 | | X | X | X | X | | | |
| 6 | BC13967 EB-1 | APCO-GS-AP-EB-01 | APCO_Gorgas_AshPond | | | | GW | G | 7/26/2022 | 14:15 | | X | X | X | X | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|-----------|-------|---------------------------|--------|-------|-------------------|
| | Renee Jernigan/ APC GTL | 7/27/2022 | 15:15 | <i>[Signature]</i> | 8-1-22 | 12:45 | |
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WO#: 30510112



30510112

| | | | |
|-------------------------------|--|---------------------|--|
| TEMP in C | | Received on | |
| | | | |
| PRINT Name of SAMPLER: | | DATE Signed: | |
| Anthony Coggins | | | |

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5870 1897 4287

| | |
|------------|-----------|
| Label | <u>PS</u> |
| LIMS Login | <u>VP</u> |

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue None

Cooler Temperature _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

| Comments: | pH paper Lot# | | | Date and Initials of person examining contents: <u>PS 8/1/22</u> |
|---|-------------------------------------|-------------------------------------|-------------------------------------|--|
| | Yes | No | N/A | |
| Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. |
| Sampler Name & Signature on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. |
| -Includes date/time/ID Matrix: <u>WT</u> | | | | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. |
| Short Hold Time Analysis (<72hr remaining): | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. |
| Correct Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. |
| Orthophosphate field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 12. |
| Hex Cr Aqueous sample field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 13. |
| Organic Samples checked for dechlorination: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 14. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. |
| All containers have been checked for preservation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. |
| exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | | | | <u>PH < 2</u> |
| All containers meet method preservation requirements. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>PS</u> Date/time of preservation: _____ |
| | | | | Lot # of added preservative: _____ |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 17. |
| Trip Blank Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 18. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Rad Samples Screened < 0.5 mrem/hr | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>PS</u> Date: <u>8/1/22</u> Survey Meter SN: <u>1563</u> |

WO#: 30510112
 PM: SCR Due Date: 08/29/22
 CLIENT: ALABAMA PWR

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 8/5/2022
Worklist: 68096
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2536921 |
| MB concentration: | 0.335 |
| MB 2 Sigma CSU: | 0.306 |
| MB MDC: | 0.620 |
| MB Numerical Performance Indicator: | 2.14 |
| MB Status vs Numerical Indicator: | Warning |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | |
|---|-----------|
| LCSD (Y or N)? | N |
| LCSD68096 | LCSD68096 |
| Count Date: | 8/25/2022 |
| Spike I.D.: | 22-016 |
| Decay Corrected Spike Concentration (pCi/mL): | 34.560 |
| Volume Used (mL): | 0.10 |
| Aliquot Volume (L, g, F): | 0.807 |
| Target Conc. (pCi/L, g, F): | 4.284 |
| Uncertainty (Calculated): | 0.210 |
| Result (pCi/L, g, F): | 4.461 |
| LCSD 2 Sigma CSU (pCi/L, g, F): | 0.999 |
| Numerical Performance Indicator: | 0.34 |
| Percent Recovery: | 104.12% |
| Status vs Numerical Indicator: | N/A |
| Upper % Recovery Limits: | Pass |
| Lower % Recovery Limits: | 135% |
| | 60% |

| Duplicate Sample Assessment | |
|--|---|
| Sample I.D.: | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D.: | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

| Sample Matrix Spike Control Assessment | | |
|--|-------------|-------------|
| Sample Collection Date: | MS/MSD 1 | MS/MSD 2 |
| Sample I.D. | 7/20/2022 | 7/25/2022 |
| Sample MS I.D. | 30510110001 | 30510112001 |
| Sample MSD I.D. | 30510110002 | 30510112002 |
| Spike I.D.: | 30510110003 | 30510112003 |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 22-016 | 22-016 |
| Spike Volume Used in MS (mL): | 34.975 | 34.975 |
| Spike Volume Used in MSD (mL): | 0.20 | 0.20 |
| MS Aliquot (L, g, F): | 0.20 | 0.20 |
| MS Target Conc. (pCi/L, g, F): | 0.808 | 0.800 |
| MSD Target Conc. (pCi/L, g, F): | 8.654 | 8.740 |
| MSD Aliquot (L, g, F): | 0.807 | 0.807 |
| MSD Target Conc. (pCi/L, g, F): | 8.670 | 8.669 |
| MS Spike Uncertainty (calculated): | 0.424 | 0.428 |
| MSD Spike Uncertainty (calculated): | 0.425 | 0.425 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.078 | 0.550 |
| Sample Matrix Spike Result: | 0.273 | 0.342 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 8.065 | 8.521 |
| Sample Matrix Spike Duplicate Result: | 1.619 | 1.699 |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 8.135 | 8.295 |
| MS Numerical Performance Indicator: | 1.635 | 1.683 |
| MS Percent Recovery: | -0.771 | -0.844 |
| MSD Numerical Performance Indicator: | -0.702 | -1.023 |
| MSD Percent Recovery: | 92.29% | 91.20% |
| MS Status vs Numerical Indicator: | Pass | Pass |
| MSD Status vs Numerical Indicator: | Pass | Pass |
| MS Status vs Recovery: | Pass | Pass |
| MSD Status vs Recovery: | Pass | Pass |
| MS/MSD Upper % Recovery Limits: | 135% | 135% |
| MS/MSD Lower % Recovery Limits: | 60% | 60% |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
|--|---------------------------------|---------------------------------|
| Sample I.D. | MS/MSD Upper % Recovery Limits: | MS/MSD Lower % Recovery Limits: |
| Sample I.D. | 30510110001 | 30510112001 |
| Sample MS I.D. | 30510110002 | 30510112002 |
| Sample MSD I.D. | 30510110003 | 30510112003 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 8.065 | 8.521 |
| Sample Matrix Spike Duplicate Result: | 1.619 | 1.699 |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 8.135 | 8.295 |
| Sample Matrix Spike Duplicate Duplicate Result: | 1.635 | 1.683 |
| Duplicate Numerical Performance Indicator: | -0.059 | 0.185 |
| Duplicate Numerical Performance Indicator: | 0.69% | 2.05% |
| MS/MSD Duplicate Status vs Numerical Indicator: | Pass | Pass |
| MS/MSD Duplicate Status vs RPD: | Pass | Pass |
| % RPD Limit: | 36% | 36% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Am 8/30/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: RMS
 Date: 8/12/2022
 Worklist: 68078
 Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2535155 |
| MB concentration: | 0.189 |
| M/B Counting Uncertainty: | 0.166 |
| MB MDC: | 0.271 |
| MB Numerical Performance Indicator: | 2.23 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | | LCS# | Y or N? | N |
|---|--|-----------|---------|-----------|
| Count Date: | | 8/29/2022 | | LCSD68078 |
| Spike I.D.: | | 19-033 | | |
| Decay Corrected Spike Concentration (pCi/mL): | | 24.024 | | |
| Volume Used (mL): | | 0.10 | | |
| Aliquot Volume (L, g, F): | | 0.206 | | |
| Target Conc. (pCi/L, g, F): | | 0.140 | | |
| Uncertainty (Calculated): | | 11.654 | | |
| Result (pCi/L, g, F): | | 13.117 | | |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | | 1.206 | | |
| Numerical Performance Indicator: | | 2.36 | | |
| Percent Recovery: | | 112.56% | | |
| Status vs Numerical Indicator: | | N/A | | |
| Status vs Recovery: | | Pass | | |
| Upper % Recovery Limits: | | 125% | | |
| Lower % Recovery Limits: | | 75% | | |

| Duplicate Sample Assessment | |
|---|--------------|
| Sample I.D.: | See Below ## |
| Duplicate Sample I.D.: | |
| Sample Result (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Counting Uncertainty (pCi/L, g, F): | |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

[Handwritten Signature]

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|---|--|-------------|-------------|
| Sample Collection Date: | | 7/20/2022 | 7/25/2022 |
| Sample I.D.: | | 30510110001 | 30510112001 |
| Sample MS I.D.: | | 30510110002 | 30510112002 |
| Sample MSD I.D.: | | 30510110003 | 30510112003 |
| Spike I.D.: | | 19-033 | 19-033 |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | 24.025 | 24.025 |
| Spike Volume Used in MSD (mL): | | 0.20 | 0.20 |
| Spike Volume Used in MSD (mL): | | 0.20 | 0.20 |
| MS Aliquot (L, g, F): | | 0.196 | 0.192 |
| MS Target Conc. (pCi/L, g, F): | | 24.521 | 25.003 |
| MSD Aliquot (L, g, F): | | 0.201 | 0.193 |
| MSD Target Conc. (pCi/L, g, F): | | 23.930 | 24.904 |
| MS Spike Uncertainty (calculated): | | 0.294 | 0.300 |
| MSD Spike Uncertainty (calculated): | | 0.287 | 0.299 |
| Sample Result: | | -0.055 | 0.132 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | | 0.095 | 0.143 |
| Sample Matrix Spike Result: | | 27.160 | 27.989 |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | | 1.280 | 1.906 |
| Sample Matrix Spike Duplicate Result: | | 23.895 | 23.149 |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | | 1.167 | 1.654 |
| MS Numerical Performance Indicator: | | 4.011 | 2.891 |
| MSD Numerical Performance Indicator: | | 0.034 | -2.193 |
| MS Percent Recovery: | | 110.99% | 111.41% |
| MSD Percent Recovery: | | 100.09% | 92.42% |
| MS Status vs Numerical Indicator: | | N/A | N/A |
| MSD Status vs Numerical Indicator: | | N/A | N/A |
| MS Status vs Recovery: | | Pass | Pass |
| MSD Status vs Recovery: | | Pass | Pass |
| MS/MSD Upper % Recovery Limits: | | 125% | 125% |
| MS/MSD Lower % Recovery Limits: | | 75% | 75% |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | |
|---|-------------|
| Sample I.D.: | 30510110001 |
| Sample MS I.D.: | 30510112002 |
| Sample MSD I.D.: | 30510110003 |
| Sample Matrix Spike Result: | 27.160 |
| Sample Matrix Spike Duplicate Result: | 23.895 |
| Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): | 1.280 |
| Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): | 1.167 |
| Duplicate Numerical Performance Indicator: | 3.695 |
| Duplicate Numerical Performance Indicator: | 10.33% |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | N/A |
| MS/MSD Duplicate Status vs Numerical Indicator: | Pass |
| MS/MSD Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 25% |

Am8/30/22

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative



Gorgas Ash Pond

MW-44HO (Salter Well) 2022 Event 2

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verifications for all required field parameters were performed daily, before and after sample collection.

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWGORAP_1378

Project/Site : Gorgas Ash Pond
Parrish, AL 35580

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Renee Jernigan
rgarner@southernco.com
(205) 664-6247

August 16, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2023

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Renee
Jernigan**

Digitally signed by Renee
Jernigan
Date: 2022.08.16
16:32:55 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, o=T Durant Maske
c=US, United States, e=tdmaske@southernco.com
Reason: I am the author of this document
Location:
Date: 2022-08-18 14:30-05:00



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Total Metals ICP

Gorgas Ash Pond

WMWGORAP_1378

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13442 | 732136 | WMWGORAP_1378 |
| BC13443 | 732136 | WMWGORAP_1378 |
| BC13444 | 732136 | WMWGORAP_1378 |
| BC13445 | 732136 | WMWGORAP_1378 |

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC13442 | Sodium | 10.15 |
| BC13443 | Sodium | 10.15 |

8. The raw data results are shown with dilution factors included.

Case Narrative

Dissolved Metals ICP

Gorgas Ash Pond

WMWGORAP_1378

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13442 | 732183 | WMWGORAP_1378 |
| BC13443 | 732183 | WMWGORAP_1378 |

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met except for the following:
 - BC13443 Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC13442 | Sodium | 10.15 |
| BC13443 | Sodium | 10.15 |

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1378

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13442 | 731842 | WMWGORAP_1378 |
| BC13443 | 731842 | WMWGORAP_1378 |
| BC13444 | 731842 | WMWGORAP_1378 |
| BC13445 | 731842 | WMWGORAP_1378 |

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Gorgas Ash Pond

WMWGORAP_1378

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13442 | 731875 | WMWGORAP_1378 |
| BC13443 | 731875 | WMWGORAP_1378 |

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any
Revision 5

sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC13443 Antimony and Selenium matrix spike and matrix spike duplicate recovery were outside of the specification limits.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met, except for the following:
 - BC13443 Selenium matrix spike and matrix spike duplicate precision was outside of the specification limit.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Mercury

Gorgas Ash Pond

WMWGORAP_1378

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13442 | 731208 | WMWGORAP_1378 |
| BC13443 | 731208 | WMWGORAP_1378 |
| BC13444 | 731208 | WMWGORAP_1378 |
| BC13445 | 731208 | WMWGORAP_1378 |

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.

Revision 5

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.

Case Narrative

Total Dissolved Solids

Gorgas Ash Pond

WMWGORAP_1378

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13442 | 731209 | WMWGORAP_1378 |
| BC13443 | 731209 | WMWGORAP_1378 |
| BC13444 | 731209 | WMWGORAP_1378 |
| BC13445 | 731209 | WMWGORAP_1378 |

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC13444
 - BC13445

Anions

Gorgas Ash Pond

WMWGORAP_1378

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|----------------------|-------------------|
| BC13442 | 731964,731969,732788 | WMWGORAP_1378 |
| BC13443 | 731964,731969,732788 | WMWGORAP_1378 |
| BC13444 | 731964,731969,732788 | WMWGORAP_1378 |
| BC13445 | 731964,731969,732788 | WMWGORAP_1378 |

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.

Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

| <u>Sample ID</u> | <u>Analyte</u> | <u>Dilution Factor</u> |
|------------------|----------------|------------------------|
| BC13442 | Chloride | 4 |
| BC13443 | Chloride | 4 |

8. The raw data results are shown with dilution factors included.

Case Narrative

Alkalinity

Gorgas Ash Pond

WMWGORAP_1378

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13442 | 732233; 732234 | WMWGORAP_1378 |
| BC13443 | 732233; 732234 | WMWGORAP_1378 |

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Nitrate-Nitrite

Gorgas Ash Pond

WMWGORAP_1378

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13442 | 731956 | WMWGORAP_1378 |
| BC13443 | 731956 | WMWGORAP_1378 |
| BC13444 | 731956 | WMWGORAP_1378 |
| BC13445 | 731956 | WMWGORAP_1378 |

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Gorgas Ash Pond

WMWGORAP_1378

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

| <u>Sample ID</u> | <u>Batch ID</u> | <u>Project ID</u> |
|------------------|-----------------|-------------------|
| BC13442 | 731582 | WMWGORAP_1378 |
| BC13443 | 731582 | WMWGORAP_1378 |
| BC13444 | 731582 | WMWGORAP_1378 |
| BC13445 | 731582 | WMWGORAP_1378 |

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO

Location Code: WMWGORAP
Collected: 7/20/22 08:32
Customer ID:
Submittal Date: 7/21/22 09:00

Laboratory ID Number: BC13442

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q | |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|---|--|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 14:37 | | 1.015 | 0.0422 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 14:37 | | 1.015 | 1.26 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 14:37 | | 1.015 | 0.0191 | mg/L | 0.008120 | 0.0406 | J | |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 14:37 | | 1.015 | 0.0529 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 14:37 | | 1.015 | 0.306 | mg/L | 0.021315 | 0.406 | J | |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 14:37 | | 1 | 11.0 | mg/L | | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 14:37 | | 1.015 | 5.12 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 15:07 | | 10.15 | 207 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | | |
| * Boron, Dissolved | 7/21/22 15:23 | 7/25/22 12:59 | | 1.015 | 0.0416 | mg/L | 0.030000 | 0.1015 | J | |
| * Calcium, Dissolved | 7/21/22 15:23 | 7/25/22 12:59 | | 1.015 | 1.24 | mg/L | 0.070035 | 0.406 | | |
| * Iron, Dissolved | 7/21/22 15:23 | 7/25/22 12:59 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U | |
| * Lithium, Dissolved | 7/21/22 15:23 | 7/25/22 12:59 | | 1.015 | 0.0526 | mg/L | 0.007105 | 0.01999956 | | |
| * Magnesium, Dissolved | 7/21/22 15:23 | 7/25/22 12:59 | | 1.015 | 0.307 | mg/L | 0.021315 | 0.406 | J | |
| Silica, Dissolved (calc.) | 7/21/22 15:23 | 7/25/22 12:59 | | 1 | 11.0 | mg/L | | | | |
| Silicon, Dissolved | 7/21/22 15:23 | 7/25/22 12:59 | | 1.015 | 5.15 | mg/L | 0.02030 | 0.25375 | | |
| * Sodium, Dissolved | 7/21/22 15:23 | 7/25/22 13:37 | | 10.15 | 204 | mg/L | 0.3045 | 4.06 | | |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U | |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | 0.0382 | mg/L | 0.006090 | 0.01015 | | |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | 0.000401 | mg/L | 0.000081 | 0.000203 | | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | 0.0697 | mg/L | 0.000508 | 0.001015 | | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U | |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | 0.000242 | mg/L | 0.000203 | 0.001015 | J | |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U | |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | 0.00136 | mg/L | 0.000152 | 0.000203 | | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | 0.00349 | mg/L | 0.000102 | 0.000203 | | |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | 0.684 | mg/L | 0.169505 | 0.5075 | | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO

Location Code: WMWGORAP

Collected: 7/20/22 08:32

Customer ID:

Submittal Date: 7/21/22 09:00

Laboratory ID Number: BC13442

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 16:09 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | 0.00965 | mg/L | 0.006090 | 0.01015 | J |
| * Arsenic, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | 0.000373 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | 0.0739 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | 0.000320 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | 0.00154 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | 0.00333 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | 0.667 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:14 | 7/25/22 15:01 | | 1.015 | 0.00618 | mg/L | 0.000508 | 0.001015 | |
| * Thallium, Dissolved | 7/21/22 14:14 | 7/22/22 11:58 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 21:29 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 13:52 | 7/26/22 13:52 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 7/29/22 11:04 | 7/29/22 13:17 | | 1 | 432 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | 484 | mg/L | | 25 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/29/22 11:04 | 7/29/22 13:17 | | 1 | 396 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/29/22 11:04 | 7/29/22 13:17 | | 1 | 35.5 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/26/22 04:20 | 7/26/22 04:20 | | 1 | 1.39 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO

Location Code: WMWGORAP

Collected: 7/20/22 08:32

Customer ID:

Submittal Date: 7/21/22 09:00

Laboratory ID Number: BC13442

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:24 | 7/27/22 11:24 | | 4 | 30.1 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 13:14 | 7/27/22 13:14 | | 1 | 0.146 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 11:20 | 8/4/22 11:20 | | 1 | 27.0 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 7/20/22 08:30 | 7/20/22 08:30 | | | 845.96 | uS/cm | | | FA |
| pH | 7/20/22 08:30 | 7/20/22 08:30 | | | 9.02 | SU | | | FA |
| Temperature | 7/20/22 08:30 | 7/20/22 08:30 | | | 19.34 | C | | | FA |
| Turbidity | 7/20/22 08:30 | 7/20/22 08:30 | | | 4.93 | NTU | | | FA |
| Sulfide | 7/20/22 08:30 | 7/20/22 08:30 | | | 5 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 08:32

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond - MW-44HO

Laboratory ID Number: BC13442

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec Limit |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC13443 | Aluminum, Dissolved | mg/L | 0.0000926 | 0.010 | 0.100 | 0.105 | 0.112 | 0.0993 | 0.0850 to 0.115 | 94.4 | 70.0 to 130 | 6.45 | 20.0 |
| BC13445 | Aluminum, Total | mg/L | 0.000490 | 0.010 | 0.100 | 0.0966 | 0.101 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.45 | 20.0 |
| BC13443 | Antimony, Dissolved | mg/L | 0.000379 | 0.00100 | 0.100 | 0.0684 | 0.0628 | 0.0910 | 0.0850 to 0.115 | 68.4 | 70.0 to 130 | 8.54 | 20.0 |
| BC13445 | Antimony, Total | mg/L | 0.000288 | 0.00100 | 0.100 | 0.0982 | 0.0989 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 0.710 | 20.0 |
| BC13443 | Arsenic, Dissolved | mg/L | 0.0000620 | 0.000176 | 0.100 | 0.0976 | 0.104 | 0.104 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 6.35 | 20.0 |
| BC13445 | Arsenic, Total | mg/L | 0.0000890 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC13443 | Barium, Dissolved | mg/L | 0.0000040 | 0.00100 | 0.100 | 0.165 | 0.178 | 0.0944 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 7.58 | 20.0 |
| BC13445 | Barium, Total | mg/L | -0.0000450 | 0.00100 | 0.100 | 0.0959 | 0.0979 | 0.0994 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 2.06 | 20.0 |
| BC13443 | Beryllium, Dissolved | mg/L | 0.000264 | 0.000880 | 0.100 | 0.102 | 0.101 | 0.0960 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13445 | Beryllium, Total | mg/L | 0.000200 | 0.000880 | 0.100 | 0.0990 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.811 | 20.0 |
| BC13443 | Boron, Dissolved | mg/L | 0.00216 | 0.0650 | 1.00 | 1.06 | 1.02 | 0.947 | 0.850 to 1.15 | 102 | 70.0 to 130 | 3.85 | 20.0 |
| BC13445 | Boron, Total | mg/L | 0.00210 | 0.0650 | 1.00 | 0.954 | 0.960 | 0.961 | 0.850 to 1.15 | 95.4 | 70.0 to 130 | 0.627 | 20.0 |
| BC13443 | Cadmium, Dissolved | mg/L | 0.0000113 | 0.000147 | 0.100 | 0.0979 | 0.105 | 0.105 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 7.00 | 20.0 |
| BC13445 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0999 | 0.102 | 0.106 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 2.08 | 20.0 |
| BC13443 | Calcium, Dissolved | mg/L | -0.0124 | 0.152 | 5.00 | 6.42 | 6.69 | 5.00 | 4.25 to 5.75 | 103 | 70.0 to 130 | 4.12 | 20.0 |
| BC13445 | Calcium, Total | mg/L | -0.0165 | 0.152 | 5.00 | 5.09 | 5.10 | 5.10 | 4.25 to 5.75 | 102 | 70.0 to 130 | 0.196 | 20.0 |
| BC13445 | Chloride | mg/L | 0.0670 | 1.00 | 10.0 | 9.98 | 10.6 | 10.3 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 6.03 | 20.0 |
| BC13443 | Chromium, Dissolved | mg/L | 0.000272 | 0.000440 | 0.100 | 0.0944 | 0.102 | 0.100 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 7.74 | 20.0 |
| BC13445 | Chromium, Total | mg/L | 0.000124 | 0.000440 | 0.100 | 0.0987 | 0.0982 | 0.102 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.508 | 20.0 |
| BC13443 | Cobalt, Dissolved | mg/L | 0.0000172 | 0.000147 | 0.100 | 0.0997 | 0.106 | 0.105 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 6.13 | 20.0 |
| BC13445 | Cobalt, Total | mg/L | -0.0000105 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC13445 | Fluoride | mg/L | -0.0446 | 0.125 | 2.50 | 2.73 | 2.71 | 2.69 | 2.25 to 2.75 | 109 | 80.0 to 120 | 0.735 | 20.0 |
| BC13443 | Iron, Dissolved | mg/L | 0.000954 | 0.0176 | 0.2 | 0.206 | 0.210 | 0.196 | 0.170 to 0.230 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC13445 | Iron, Total | mg/L | 9.310E-06 | 0.0176 | 0.2 | 0.203 | 0.200 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 1.49 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP
Sample Date: 7/20/22 08:32
Customer ID:
Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond - MW-44HO

Laboratory ID Number: BC13442

| Sample | Analysis | Units | MB | | | | | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | | |
| BC13443 | Lead, Dissolved | mg/L | 0.0000072 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13445 | Lead, Total | mg/L | 0.0000040 | 0.000147 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13443 | Lithium, Dissolved | mg/L | 0.000288 | 0.0154 | 0.200 | 0.276 | 0.280 | 0.188 | 0.170 to 0.230 | 111 | 70.0 to 130 | 1.44 | 20.0 |
| BC13445 | Lithium, Total | mg/L | 8.620E-05 | 0.0154 | 0.200 | 0.193 | 0.193 | 0.193 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC13443 | Magnesium, Dissolved | mg/L | -0.000493 | 0.0462 | 5.00 | 5.31 | 5.57 | 4.93 | 4.25 to 5.75 | 99.9 | 70.0 to 130 | 4.78 | 20.0 |
| BC13445 | Magnesium, Total | mg/L | -0.0135 | 0.0462 | 5.00 | 5.09 | 5.08 | 5.08 | 4.25 to 5.75 | 102 | 70.0 to 130 | 0.197 | 20.0 |
| BC13443 | Manganese, Dissolved | mg/L | 0.000137 | 0.0002 | 0.100 | 0.0983 | 0.106 | 0.103 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 7.54 | 20.0 |
| BC13445 | Manganese, Total | mg/L | -0.0000160 | 0.0002 | 0.100 | 0.0989 | 0.101 | 0.103 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.10 | 20.0 |
| BC13445 | Mercury, Total by CVAA | mg/L | 0.0000 | 0.000500 | 0.004 | 0.00405 | 0.00404 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.247 | 20.0 |
| BC13443 | Molybdenum, Dissolved | mg/L | 0.0000224 | 0.0002 | 0.100 | 0.0972 | 0.107 | 0.0998 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 9.60 | 20.0 |
| BC13445 | Molybdenum, Total | mg/L | 0.0000307 | 0.0002 | 0.100 | 0.102 | 0.101 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13443 | Potassium, Dissolved | mg/L | -0.0125 | 0.367 | 10.0 | 10.5 | 11.3 | 10.1 | 8.50 to 11.5 | 98.1 | 70.0 to 130 | 7.34 | 20.0 |
| BC13445 | Potassium, Total | mg/L | -0.00214 | 0.367 | 10.0 | 10.0 | 10.2 | 10.2 | 8.50 to 11.5 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13443 | Selenium, Dissolved | mg/L | 0.0000186 | 0.00100 | 0.100 | 0.0273 | 0.00712 | 0.104 | 0.0850 to 0.115 | 22.5 | 70.0 to 130 | 117 | 20.0 |
| BC13445 | Selenium, Total | mg/L | 0.000510 | 0.00100 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC13443 | Silicon, Dissolved | mg/L | -0.00103 | 0.0440 | 1.00 | 6.23 | 6.23 | 0.992 | 0.850 to 1.15 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Silicon, Total | mg/L | -0.000535 | 0.0440 | 1.00 | 0.982 | 0.984 | 0.994 | 0.850 to 1.15 | 98.2 | 70.0 to 130 | 0.203 | 20.0 |
| BC13443 | Sodium, Dissolved | mg/L | 0.0154 | 0.0660 | 5.00 | 206 | 201 | 4.59 | 4.25 to 5.75 | 100 | 70.0 to 130 | 2.46 | 20.0 |
| BC13445 | Sodium, Total | mg/L | 0.000564 | 0.0660 | 5.00 | 4.67 | 4.67 | 4.71 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Sulfate | mg/L | -0.435 | 2.0 | 20.0 | 20.5 | 20.2 | 19.3 | 18.0 to 22.0 | 102 | 80.0 to 120 | 1.47 | 20.0 |
| BC13443 | Thallium, Dissolved | mg/L | -0.0000277 | 0.000147 | 0.100 | 0.101 | 0.0992 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.80 | 20.0 |
| BC13445 | Thallium, Total | mg/L | -0.0000346 | 0.000147 | 0.100 | 0.101 | 0.100 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC13445 | Total Organic Carbon | mg/L | 0.178 | 1.00 | 10.0 | 8.27 | 8.73 | 8.70 | | 82.7 | 80.0 to 120 | 5.41 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 08:32

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond - MW-44HO

Laboratory ID Number: BC13442

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|--------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC13443 | Alkalinity, Total as CaCO3 | mg/L | | | | | 447 | 50.7 | 45.0 to 55.0 | | | 6.71 | 10.0 |
| BC13445 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.10 | 0.200 | 2.00 | 2.06 | 0.103 | 1.99 | 1.80 to 2.20 | 103 | 90.0 to 110 | 0.00 | 15.0 |
| BC13443 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 426 | 50.0 | 40.0 to 60.0 | | | 8.54 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO Dup

Location Code: WMWGORAP
Collected: 7/20/22 08:32
Customer ID:
Submittal Date: 7/21/22 09:00

Laboratory ID Number: BC13443

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-------|----------|------------|----|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 14:40 | | 1.015 | 0.0420 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 14:40 | | 1.015 | 1.29 | mg/L | 0.070035 | 0.406 | |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 14:40 | | 1.015 | 0.0196 | mg/L | 0.008120 | 0.0406 | J |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 14:40 | | 1.015 | 0.0540 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 14:40 | | 1.015 | 0.313 | mg/L | 0.021315 | 0.406 | J |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 14:40 | | 1 | 11.0 | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 14:40 | | 1.015 | 5.15 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 15:10 | | 10.15 | 206 | mg/L | 0.3045 | 4.06 | |
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Dissolved | 7/21/22 15:23 | 7/25/22 13:02 | | 1.015 | 0.0412 | mg/L | 0.030000 | 0.1015 | J |
| * Calcium, Dissolved | 7/21/22 15:23 | 7/25/22 13:02 | | 1.015 | 1.26 | mg/L | 0.070035 | 0.406 | |
| * Iron, Dissolved | 7/21/22 15:23 | 7/25/22 13:02 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Dissolved | 7/21/22 15:23 | 7/25/22 13:02 | | 1.015 | 0.0538 | mg/L | 0.007105 | 0.01999956 | |
| * Magnesium, Dissolved | 7/21/22 15:23 | 7/25/22 13:02 | | 1.015 | 0.313 | mg/L | 0.021315 | 0.406 | J |
| Silica, Dissolved (calc.) | 7/21/22 15:23 | 7/25/22 13:02 | | 1 | 11.0 | mg/L | | | |
| Silicon, Dissolved | 7/21/22 15:23 | 7/25/22 13:02 | | 1.015 | 5.16 | mg/L | 0.02030 | 0.25375 | |
| * Sodium, Dissolved | 7/21/22 15:23 | 7/25/22 13:41 | | 10.15 | 201 | mg/L | 0.3045 | 4.06 | RA |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | 0.0379 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | 0.000443 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | 0.0684 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | 0.000267 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | 0.00142 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | 0.00328 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | 0.696 | mg/L | 0.169505 | 0.5075 | |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Antimony MS/MSD recovery was outside of the specification limits.
 Selenium MS/MSD precision was outside of specification limits.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO Dup

Location Code: WMWGORAP
Collected: 7/20/22 08:32
Customer ID:
Submittal Date: 7/21/22 09:00

Laboratory ID Number: BC13443

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|-------|--------------|-----------|----------|----------|---|
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 16:12 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | | | | | |
| * Antimony, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | 0.0106 | mg/L | 0.006090 | 0.01015 | |
| * Arsenic, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | 0.000356 | mg/L | 0.000081 | 0.000203 | |
| * Barium, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | 0.0735 | mg/L | 0.000508 | 0.001015 | |
| * Beryllium, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | 0.000283 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | 0.00135 | mg/L | 0.000152 | 0.000203 | |
| * Molybdenum, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | 0.00303 | mg/L | 0.000102 | 0.000203 | |
| * Potassium, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | 0.693 | mg/L | 0.169505 | 0.5075 | |
| * Selenium, Dissolved | 7/21/22 14:14 | 7/25/22 15:05 | | 1.015 | 0.00482 | mg/L | 0.000508 | 0.001015 | R |
| * Thallium, Dissolved | 7/21/22 14:14 | 7/22/22 12:02 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 21:33 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 13:53 | 7/26/22 13:53 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2320 B | | Analyst: ALH | | | | | | | |
| Alkalinity, Total as CaCO3 | 7/29/22 11:04 | 7/29/22 13:17 | | 1 | 418 | mg/L | | 0.1 | |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | 464 | mg/L | | 50 | |
| Analytical Method: SM 4500CO2 D | | Analyst: ALH | | | | | | | |
| Bicarbonate Alkalinity, (calc.) | 7/29/22 11:04 | 7/29/22 13:17 | | 1 | 391 | mg/L | | | |
| Carbonate Alkalinity, (calc.) | 7/29/22 11:04 | 7/29/22 13:17 | | 1 | 26.6 | mg/L | | | |
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/26/22 04:44 | 7/26/22 04:44 | | 1 | 1.31 | mg/L | 1.00 | 2 | J |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Antimony MS/MSD recovery was outside of the specification limits.
 Selenium MS/MSD precision was outside of specification limits.

Certificate Of Analysis

Description: Gorgas Ash Pond - MW-44HO Dup

Location Code: WMWGORAP
Collected: 7/20/22 08:32
Customer ID:
Submittal Date: 7/21/22 09:00

Laboratory ID Number: BC13443

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|---------|-------|------|-------|----|
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:25 | 7/27/22 11:25 | | 4 | 29.5 | mg/L | 2.00 | 4 | |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 13:15 | 7/27/22 13:15 | | 1 | 0.149 | mg/L | 0.06 | 0.125 | |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 11:21 | 8/4/22 11:21 | | 1 | 28.9 | mg/L | 0.6 | 2 | |
| Analytical Method: Field Measurements | | Analyst: AWG | | | | | | | |
| Conductivity | 7/20/22 08:30 | 7/20/22 08:30 | | | 845.96 | uS/cm | | | FA |
| pH | 7/20/22 08:30 | 7/20/22 08:30 | | | 9.02 | SU | | | FA |
| Temperature | 7/20/22 08:30 | 7/20/22 08:30 | | | 19.34 | C | | | FA |
| Turbidity | 7/20/22 08:30 | 7/20/22 08:30 | | | 4.93 | NTU | | | FA |
| Sulfide | 7/20/22 08:30 | 7/20/22 08:30 | | | 5 | mg/L | | | FA |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Antimony MS/MSD recovery was outside of the specification limits.
 Selenium MS/MSD precision was outside of specification limits.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 08:32

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond - MW-44HO Dup

Laboratory ID Number: BC13443

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | | Prec |
|---------|----------------------|-------|------------|----------|-------|--------|--------|----------|-----------------|------|-------------|-------|------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | |
| BC13443 | Aluminum, Dissolved | mg/L | 0.0000926 | 0.010 | 0.100 | 0.105 | 0.112 | 0.0993 | 0.0850 to 0.115 | 94.4 | 70.0 to 130 | 6.45 | 20.0 |
| BC13445 | Aluminum, Total | mg/L | 0.000490 | 0.010 | 0.100 | 0.0966 | 0.101 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.45 | 20.0 |
| BC13443 | Antimony, Dissolved | mg/L | 0.000379 | 0.00100 | 0.100 | 0.0684 | 0.0628 | 0.0910 | 0.0850 to 0.115 | 68.4 | 70.0 to 130 | 8.54 | 20.0 |
| BC13445 | Antimony, Total | mg/L | 0.000288 | 0.00100 | 0.100 | 0.0982 | 0.0989 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 0.710 | 20.0 |
| BC13443 | Arsenic, Dissolved | mg/L | 0.0000620 | 0.000176 | 0.100 | 0.0976 | 0.104 | 0.104 | 0.0850 to 0.115 | 97.2 | 70.0 to 130 | 6.35 | 20.0 |
| BC13445 | Arsenic, Total | mg/L | 0.0000890 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC13443 | Barium, Dissolved | mg/L | 0.0000040 | 0.00100 | 0.100 | 0.165 | 0.178 | 0.0944 | 0.0850 to 0.115 | 91.5 | 70.0 to 130 | 7.58 | 20.0 |
| BC13445 | Barium, Total | mg/L | -0.0000450 | 0.00100 | 0.100 | 0.0959 | 0.0979 | 0.0994 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 2.06 | 20.0 |
| BC13443 | Beryllium, Dissolved | mg/L | 0.000264 | 0.000880 | 0.100 | 0.102 | 0.101 | 0.0960 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13445 | Beryllium, Total | mg/L | 0.000200 | 0.000880 | 0.100 | 0.0990 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.811 | 20.0 |
| BC13443 | Boron, Dissolved | mg/L | 0.00216 | 0.0650 | 1.00 | 1.06 | 1.02 | 0.947 | 0.850 to 1.15 | 102 | 70.0 to 130 | 3.85 | 20.0 |
| BC13445 | Boron, Total | mg/L | 0.00210 | 0.0650 | 1.00 | 0.954 | 0.960 | 0.961 | 0.850 to 1.15 | 95.4 | 70.0 to 130 | 0.627 | 20.0 |
| BC13443 | Cadmium, Dissolved | mg/L | 0.0000113 | 0.000147 | 0.100 | 0.0979 | 0.105 | 0.105 | 0.0850 to 0.115 | 97.9 | 70.0 to 130 | 7.00 | 20.0 |
| BC13445 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0999 | 0.102 | 0.106 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 2.08 | 20.0 |
| BC13443 | Calcium, Dissolved | mg/L | -0.0124 | 0.152 | 5.00 | 6.42 | 6.69 | 5.00 | 4.25 to 5.75 | 103 | 70.0 to 130 | 4.12 | 20.0 |
| BC13445 | Calcium, Total | mg/L | -0.0165 | 0.152 | 5.00 | 5.09 | 5.10 | 5.10 | 4.25 to 5.75 | 102 | 70.0 to 130 | 0.196 | 20.0 |
| BC13445 | Chloride | mg/L | 0.0670 | 1.00 | 10.0 | 9.98 | 10.6 | 10.3 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 6.03 | 20.0 |
| BC13443 | Chromium, Dissolved | mg/L | 0.000272 | 0.000440 | 0.100 | 0.0944 | 0.102 | 0.100 | 0.0850 to 0.115 | 94.1 | 70.0 to 130 | 7.74 | 20.0 |
| BC13445 | Chromium, Total | mg/L | 0.000124 | 0.000440 | 0.100 | 0.0987 | 0.0982 | 0.102 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.508 | 20.0 |
| BC13443 | Cobalt, Dissolved | mg/L | 0.0000172 | 0.000147 | 0.100 | 0.0997 | 0.106 | 0.105 | 0.0850 to 0.115 | 99.7 | 70.0 to 130 | 6.13 | 20.0 |
| BC13445 | Cobalt, Total | mg/L | -0.0000105 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC13445 | Fluoride | mg/L | -0.0446 | 0.125 | 2.50 | 2.73 | 2.71 | 2.69 | 2.25 to 2.75 | 109 | 80.0 to 120 | 0.735 | 20.0 |
| BC13443 | Iron, Dissolved | mg/L | 0.000954 | 0.0176 | 0.2 | 0.206 | 0.210 | 0.196 | 0.170 to 0.230 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC13445 | Iron, Total | mg/L | 9.310E-06 | 0.0176 | 0.2 | 0.203 | 0.200 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 1.49 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Antimony MS/MSD recovery was outside of the specification limits.
 Selenium MS/MSD precision was outside of specification limits.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 08:32

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond - MW-44HO Dup

Laboratory ID Number: BC13443

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13443 | Lead, Dissolved | mg/L | 0.000072 | 0.000147 | 0.100 | 0.102 | 0.101 | 0.101 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13445 | Lead, Total | mg/L | 0.000040 | 0.000147 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13443 | Lithium, Dissolved | mg/L | 0.000288 | 0.0154 | 0.200 | 0.276 | 0.280 | 0.188 | 0.170 to 0.230 | 111 | 70.0 to 130 | 1.44 | 20.0 |
| BC13445 | Lithium, Total | mg/L | 8.620E-05 | 0.0154 | 0.200 | 0.193 | 0.193 | 0.193 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC13443 | Magnesium, Dissolved | mg/L | -0.000493 | 0.0462 | 5.00 | 5.31 | 5.57 | 4.93 | 4.25 to 5.75 | 99.9 | 70.0 to 130 | 4.78 | 20.0 |
| BC13445 | Magnesium, Total | mg/L | -0.0135 | 0.0462 | 5.00 | 5.09 | 5.08 | 5.08 | 4.25 to 5.75 | 102 | 70.0 to 130 | 0.197 | 20.0 |
| BC13443 | Manganese, Dissolved | mg/L | 0.000137 | 0.0002 | 0.100 | 0.0983 | 0.106 | 0.103 | 0.0850 to 0.115 | 97.0 | 70.0 to 130 | 7.54 | 20.0 |
| BC13445 | Manganese, Total | mg/L | -0.0000160 | 0.0002 | 0.100 | 0.0989 | 0.101 | 0.103 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.10 | 20.0 |
| BC13445 | Mercury, Total by CVAA | mg/L | 0.0000 | 0.000500 | 0.004 | 0.00405 | 0.00404 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.247 | 20.0 |
| BC13443 | Molybdenum, Dissolved | mg/L | 0.0000224 | 0.0002 | 0.100 | 0.0972 | 0.107 | 0.0998 | 0.0850 to 0.115 | 94.2 | 70.0 to 130 | 9.60 | 20.0 |
| BC13445 | Molybdenum, Total | mg/L | 0.0000307 | 0.0002 | 0.100 | 0.102 | 0.101 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13443 | Potassium, Dissolved | mg/L | -0.0125 | 0.367 | 10.0 | 10.5 | 11.3 | 10.1 | 8.50 to 11.5 | 98.1 | 70.0 to 130 | 7.34 | 20.0 |
| BC13445 | Potassium, Total | mg/L | -0.00214 | 0.367 | 10.0 | 10.0 | 10.2 | 10.2 | 8.50 to 11.5 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13443 | Selenium, Dissolved | mg/L | 0.0000186 | 0.00100 | 0.100 | 0.0273 | 0.00712 | 0.104 | 0.0850 to 0.115 | 22.5 | 70.0 to 130 | 117 | 20.0 |
| BC13445 | Selenium, Total | mg/L | 0.000510 | 0.00100 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC13443 | Silicon, Dissolved | mg/L | -0.00103 | 0.0440 | 1.00 | 6.23 | 6.23 | 0.992 | 0.850 to 1.15 | 107 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Silicon, Total | mg/L | -0.000535 | 0.0440 | 1.00 | 0.982 | 0.984 | 0.994 | 0.850 to 1.15 | 98.2 | 70.0 to 130 | 0.203 | 20.0 |
| BC13443 | Sodium, Dissolved | mg/L | 0.0154 | 0.0660 | 5.00 | 206 | 201 | 4.59 | 4.25 to 5.75 | 100 | 70.0 to 130 | 2.46 | 20.0 |
| BC13445 | Sodium, Total | mg/L | 0.000564 | 0.0660 | 5.00 | 4.67 | 4.67 | 4.71 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Sulfate | mg/L | -0.435 | 2.0 | 20.0 | 20.5 | 20.2 | 19.3 | 18.0 to 22.0 | 102 | 80.0 to 120 | 1.47 | 20.0 |
| BC13443 | Thallium, Dissolved | mg/L | -0.0000277 | 0.000147 | 0.100 | 0.101 | 0.0992 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 1.80 | 20.0 |
| BC13445 | Thallium, Total | mg/L | -0.0000346 | 0.000147 | 0.100 | 0.101 | 0.100 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC13445 | Total Organic Carbon | mg/L | 0.178 | 1.00 | 10.0 | 8.27 | 8.73 | 8.70 | | 82.7 | 80.0 to 120 | 5.41 | 20.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Antimony MS/MSD recovery was outside of the specification limits.
 Selenium MS/MSD precision was outside of specification limits.

Batch QC Summary

Customer Account: WMWGORAP

Sample Date: 7/20/22 08:32

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond - MW-44HO Dup

Laboratory ID Number: BC13443

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|----------------------------|-----------|--------|----------|-------|------|------------------|----------|----------------|-----|-------------|------|------------|
| BC13443 | Alkalinity, Total as CaCO3 | mg/L | | | | | 447 | 50.7 | 45.0 to 55.0 | | | 6.71 | 10.0 |
| BC13445 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.10 | 0.200 | 2.00 | 2.06 | 0.103 | 1.99 | 1.80 to 2.20 | 103 | 90.0 to 110 | 0.00 | 15.0 |
| BC13443 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 426 | 50.0 | 40.0 to 60.0 | | | 8.54 | 10.0 |

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Antimony MS/MSD recovery was outside of the specification limits.
 Selenium MS/MSD precision was outside of specification limits.

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB
Collected: 7/20/22 09:15
Customer ID:
Submittal Date: 7/21/22 09:00

Laboratory ID Number: BC13444

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------------|----------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | Analyst: ABB | | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 14:43 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 14:43 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 14:43 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 14:43 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 14:43 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 14:43 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 14:43 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 14:43 | | 1.015 | 0.0336 | mg/L | 0.03045 | 0.406 | J |
| Analytical Method: EPA 200.8 | | Analyst: DLJ | | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | 0.000292 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 16:16 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | Analyst: CRB | | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 21:37 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | Analyst: CES | | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 13:54 | 7/26/22 13:54 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | Analyst: CNJ | | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Field Blank-1

Location Code: WMWGORAPFB

Collected: 7/20/22 09:15

Customer ID:

Submittal Date: 7/21/22 09:00

Laboratory ID Number: BC13444

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/26/22 05:06 | 7/26/22 05:06 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:19 | 7/27/22 11:19 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 13:16 | 7/27/22 13:16 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 11:23 | 8/4/22 11:23 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/20/22 09:15

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC13444

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13445 | Aluminum, Total | mg/L | 0.000490 | 0.010 | 0.100 | 0.0966 | 0.101 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.45 | 20.0 |
| BC13445 | Antimony, Total | mg/L | 0.000288 | 0.00100 | 0.100 | 0.0982 | 0.0989 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 0.710 | 20.0 |
| BC13445 | Arsenic, Total | mg/L | 0.0000890 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Barium, Total | mg/L | -0.0000450 | 0.00100 | 0.100 | 0.0959 | 0.0979 | 0.0994 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 2.06 | 20.0 |
| BC13445 | Beryllium, Total | mg/L | 0.000200 | 0.000880 | 0.100 | 0.0990 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.811 | 20.0 |
| BC13445 | Boron, Total | mg/L | 0.00210 | 0.0650 | 1.00 | 0.954 | 0.960 | 0.961 | 0.850 to 1.15 | 95.4 | 70.0 to 130 | 0.627 | 20.0 |
| BC13445 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0999 | 0.102 | 0.106 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 2.08 | 20.0 |
| BC13445 | Calcium, Total | mg/L | -0.0165 | 0.152 | 5.00 | 5.09 | 5.10 | 5.10 | 4.25 to 5.75 | 102 | 70.0 to 130 | 0.196 | 20.0 |
| BC13445 | Chloride | mg/L | 0.0670 | 1.00 | 10.0 | 9.98 | 10.6 | 10.3 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 6.03 | 20.0 |
| BC13445 | Chromium, Total | mg/L | 0.000124 | 0.000440 | 0.100 | 0.0987 | 0.0982 | 0.102 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.508 | 20.0 |
| BC13445 | Cobalt, Total | mg/L | -0.0000105 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC13445 | Fluoride | mg/L | -0.0446 | 0.125 | 2.50 | 2.73 | 2.71 | 2.69 | 2.25 to 2.75 | 109 | 80.0 to 120 | 0.735 | 20.0 |
| BC13445 | Iron, Total | mg/L | 9.310E-06 | 0.0176 | 0.2 | 0.203 | 0.200 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 1.49 | 20.0 |
| BC13445 | Lead, Total | mg/L | 0.0000040 | 0.000147 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Lithium, Total | mg/L | 8.620E-05 | 0.0154 | 0.200 | 0.193 | 0.193 | 0.193 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Magnesium, Total | mg/L | -0.0135 | 0.0462 | 5.00 | 5.09 | 5.08 | 5.08 | 4.25 to 5.75 | 102 | 70.0 to 130 | 0.197 | 20.0 |
| BC13445 | Manganese, Total | mg/L | -0.0000160 | 0.0002 | 0.100 | 0.0989 | 0.101 | 0.103 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.10 | 20.0 |
| BC13445 | Mercury, Total by CVAA | mg/L | 0.0000 | 0.000500 | 0.004 | 0.00405 | 0.00404 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.247 | 20.0 |
| BC13445 | Molybdenum, Total | mg/L | 0.0000307 | 0.0002 | 0.100 | 0.102 | 0.101 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13445 | Potassium, Total | mg/L | -0.00214 | 0.367 | 10.0 | 10.0 | 10.2 | 10.2 | 8.50 to 11.5 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13445 | Selenium, Total | mg/L | 0.000510 | 0.00100 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC13445 | Silicon, Total | mg/L | -0.000535 | 0.0440 | 1.00 | 0.982 | 0.984 | 0.994 | 0.850 to 1.15 | 98.2 | 70.0 to 130 | 0.203 | 20.0 |
| BC13445 | Sodium, Total | mg/L | 0.000564 | 0.0660 | 5.00 | 4.67 | 4.67 | 4.71 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Sulfate | mg/L | -0.435 | 2.0 | 20.0 | 20.5 | 20.2 | 19.3 | 18.0 to 22.0 | 102 | 80.0 to 120 | 1.47 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/20/22 09:15

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC13444

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | | |
|---------|----------------------|-------|------------|----------|-------|-------|-------|----------|-----------------|-----|-------|-------------|-------|------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | Limit | |
| BC13445 | Thallium, Total | mg/L | -0.0000346 | 0.000147 | 0.100 | 0.101 | 0.100 | 0.101 | 0.0850 to 0.115 | | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC13445 | Total Organic Carbon | mg/L | 0.178 | 1.00 | 10.0 | 8.27 | 8.73 | 8.70 | | | 82.7 | 80.0 to 120 | 5.41 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPFB

Sample Date: 7/20/22 09:15

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond Field Blank-1

Laboratory ID Number: BC13444

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|--------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC13445 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.10 | 0.200 | 2.00 | 2.06 | 0.103 | 1.99 | 1.80 to 2.20 | 103 | 90.0 to 110 | 0.00 | 15.0 |
| BC13443 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 426 | 50.0 | 40.0 to 60.0 | | | 8.54 | 10.0 |

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB
Collected: 7/20/22 09:30
Customer ID:
Submittal Date: 7/21/22 09:00

Laboratory ID Number: BC13445

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|-------------------------------------|---------------|---------------|---------------------|-------|-------------------------------------|-----------|----------|------------|---|
| Analytical Method: EPA 200.7 | | | Analyst: ABB | | Preparation Method: EPA 1638 | | | | |
| * Boron, Total | 7/22/22 06:36 | 7/22/22 14:47 | | 1.015 | Not Detected | mg/L | 0.030000 | 0.1015 | U |
| * Calcium, Total | 7/22/22 06:36 | 7/22/22 14:47 | | 1.015 | Not Detected | mg/L | 0.070035 | 0.406 | U |
| * Iron, Total | 7/22/22 06:36 | 7/22/22 14:47 | | 1.015 | Not Detected | mg/L | 0.008120 | 0.0406 | U |
| * Lithium, Total | 7/22/22 06:36 | 7/22/22 14:47 | | 1.015 | Not Detected | mg/L | 0.007105 | 0.01999956 | U |
| * Magnesium, Total | 7/22/22 06:36 | 7/22/22 14:47 | | 1.015 | Not Detected | mg/L | 0.021315 | 0.406 | U |
| Silica, Total (calc.) | 7/22/22 06:36 | 7/22/22 14:47 | | 1 | Not Detected | mg/L | | | |
| Silicon, Total | 7/22/22 06:36 | 7/22/22 14:47 | | 1.015 | Not Detected | mg/L | 0.02030 | 0.25375 | U |
| * Sodium, Total | 7/22/22 06:36 | 7/22/22 14:47 | | 1.015 | Not Detected | mg/L | 0.03045 | 0.406 | U |
| Analytical Method: EPA 200.8 | | | Analyst: DLJ | | Preparation Method: EPA 1638 | | | | |
| * Antimony, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Aluminum, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.006090 | 0.01015 | U |
| * Arsenic, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000081 | 0.000203 | U |
| * Barium, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Beryllium, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000406 | 0.001015 | U |
| * Cadmium, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Chromium, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | 0.000259 | mg/L | 0.000203 | 0.001015 | J |
| * Cobalt, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Lead, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| * Manganese, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000152 | 0.000203 | U |
| * Molybdenum, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000102 | 0.000203 | U |
| * Potassium, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.169505 | 0.5075 | U |
| * Selenium, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000508 | 0.001015 | U |
| * Thallium, Total | 7/22/22 06:33 | 7/22/22 16:20 | | 1.015 | Not Detected | mg/L | 0.000068 | 0.000203 | U |
| Analytical Method: EPA 245.1 | | | Analyst: CRB | | | | | | |
| * Mercury, Total by CVAA | 7/21/22 16:16 | 7/21/22 21:41 | | 1 | Not Detected | mg/L | 0.0003 | 0.0005 | U |
| Analytical Method: EPA 353.2 | | | Analyst: CES | | | | | | |
| * Nitrogen, Nitrate/Nitrite | 7/26/22 13:55 | 7/26/22 13:55 | | 1 | Not Detected | mg/L as N | 0.20 | 0.3 | U |
| Analytical Method: SM 2540C | | | Analyst: CNJ | | | | | | |
| * Solids, Dissolved | 7/21/22 13:20 | 7/22/22 13:20 | | 1 | Not Detected | mg/L | | 25 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Gorgas Ash Pond Equipment Blank-1

Location Code: WMWGORAPEB

Collected: 7/20/22 09:30

Customer ID:

Submittal Date: 7/21/22 09:00

Laboratory ID Number: BC13445

| Name | Prepared | Analyzed | Vio Spec | DF | Results | Units | MDL | RL | Q |
|--|---------------|---------------------|----------|----|--------------|-------|------|-------|---|
| Analytical Method: SM 5310 B | | Analyst: ELH | | | | | | | |
| * Total Organic Carbon | 7/26/22 05:25 | 7/26/22 05:25 | | 1 | Not Detected | mg/L | 1.00 | 2 | U |
| Analytical Method: SM4500Cl E | | Analyst: CES | | | | | | | |
| * Chloride | 7/27/22 11:20 | 7/27/22 11:20 | | 1 | Not Detected | mg/L | 0.50 | 1 | U |
| Analytical Method: SM4500F G 2017 | | Analyst: CES | | | | | | | |
| * Fluoride | 7/27/22 13:18 | 7/27/22 13:18 | | 1 | Not Detected | mg/L | 0.06 | 0.125 | U |
| Analytical Method: SM4500SO4 E 2011 | | Analyst: JCC | | | | | | | |
| * Sulfate | 8/4/22 11:24 | 8/4/22 11:24 | | 1 | Not Detected | mg/L | 0.6 | 2 | U |

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 7/20/22 09:30

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC13445

| Sample | Analysis | Units | MB | | Spike | MS | MSD | Standard | | Rec | | Prec | Limit |
|---------|------------------------|-------|------------|----------|-------|---------|---------|----------|--------------------|------|-------------|-------|-------|
| | | | MB | Limit | | | | Standard | Limit | Rec | Limit | | |
| BC13445 | Aluminum, Total | mg/L | 0.000490 | 0.010 | 0.100 | 0.0966 | 0.101 | 0.101 | 0.0850 to 0.115 | 96.6 | 70.0 to 130 | 4.45 | 20.0 |
| BC13445 | Antimony, Total | mg/L | 0.000288 | 0.00100 | 0.100 | 0.0982 | 0.0989 | 0.102 | 0.0850 to 0.115 | 98.2 | 70.0 to 130 | 0.710 | 20.0 |
| BC13445 | Arsenic, Total | mg/L | 0.0000890 | 0.000176 | 0.100 | 0.103 | 0.103 | 0.106 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Barium, Total | mg/L | -0.0000450 | 0.00100 | 0.100 | 0.0959 | 0.0979 | 0.0994 | 0.0850 to 0.115 | 95.9 | 70.0 to 130 | 2.06 | 20.0 |
| BC13445 | Beryllium, Total | mg/L | 0.000200 | 0.000880 | 0.100 | 0.0990 | 0.0982 | 0.0984 | 0.0850 to 0.115 | 99.0 | 70.0 to 130 | 0.811 | 20.0 |
| BC13445 | Boron, Total | mg/L | 0.00210 | 0.0650 | 1.00 | 0.954 | 0.960 | 0.961 | 0.850 to 1.15 | 95.4 | 70.0 to 130 | 0.627 | 20.0 |
| BC13445 | Cadmium, Total | mg/L | 0.0000000 | 0.000147 | 0.100 | 0.0999 | 0.102 | 0.106 | 0.0850 to 0.115 | 99.9 | 70.0 to 130 | 2.08 | 20.0 |
| BC13445 | Calcium, Total | mg/L | -0.0165 | 0.152 | 5.00 | 5.09 | 5.10 | 5.10 | 4.25 to 5.75 | 102 | 70.0 to 130 | 0.196 | 20.0 |
| BC13445 | Chloride | mg/L | 0.0670 | 1.00 | 10.0 | 9.98 | 10.6 | 10.3 | 9.00 to 11.0 | 99.8 | 80.0 to 120 | 6.03 | 20.0 |
| BC13445 | Chromium, Total | mg/L | 0.000124 | 0.000440 | 0.100 | 0.0987 | 0.0982 | 0.102 | 0.0850 to 0.115 | 98.4 | 70.0 to 130 | 0.508 | 20.0 |
| BC13445 | Cobalt, Total | mg/L | -0.0000105 | 0.000147 | 0.100 | 0.102 | 0.103 | 0.105 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.976 | 20.0 |
| BC13445 | Fluoride | mg/L | -0.0446 | 0.125 | 2.50 | 2.73 | 2.71 | 2.69 | 2.25 to 2.75 | 109 | 80.0 to 120 | 0.735 | 20.0 |
| BC13445 | Iron, Total | mg/L | 9.310E-06 | 0.0176 | 0.2 | 0.203 | 0.200 | 0.200 | 0.170 to 0.230 | 102 | 70.0 to 130 | 1.49 | 20.0 |
| BC13445 | Lead, Total | mg/L | 0.0000040 | 0.000147 | 0.100 | 0.101 | 0.101 | 0.101 | 0.0850 to 0.115 | 101 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Lithium, Total | mg/L | 8.620E-05 | 0.0154 | 0.200 | 0.193 | 0.193 | 0.193 | 0.170 to 0.230 | 96.5 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Magnesium, Total | mg/L | -0.0135 | 0.0462 | 5.00 | 5.09 | 5.08 | 5.08 | 4.25 to 5.75 | 102 | 70.0 to 130 | 0.197 | 20.0 |
| BC13445 | Manganese, Total | mg/L | -0.0000160 | 0.0002 | 0.100 | 0.0989 | 0.101 | 0.103 | 0.0850 to 0.115 | 98.9 | 70.0 to 130 | 2.10 | 20.0 |
| BC13445 | Mercury, Total by CVAA | mg/L | 0.0000 | 0.000500 | 0.004 | 0.00405 | 0.00404 | 0.00403 | 0.00340 to 0.00460 | 101 | 70.0 to 130 | 0.247 | 20.0 |
| BC13445 | Molybdenum, Total | mg/L | 0.0000307 | 0.0002 | 0.100 | 0.102 | 0.101 | 0.102 | 0.0850 to 0.115 | 102 | 70.0 to 130 | 0.985 | 20.0 |
| BC13445 | Potassium, Total | mg/L | -0.00214 | 0.367 | 10.0 | 10.0 | 10.2 | 10.2 | 8.50 to 11.5 | 100 | 70.0 to 130 | 1.98 | 20.0 |
| BC13445 | Selenium, Total | mg/L | 0.000510 | 0.00100 | 0.100 | 0.103 | 0.105 | 0.105 | 0.0850 to 0.115 | 103 | 70.0 to 130 | 1.92 | 20.0 |
| BC13445 | Silicon, Total | mg/L | -0.000535 | 0.0440 | 1.00 | 0.982 | 0.984 | 0.994 | 0.850 to 1.15 | 98.2 | 70.0 to 130 | 0.203 | 20.0 |
| BC13445 | Sodium, Total | mg/L | 0.000564 | 0.0660 | 5.00 | 4.67 | 4.67 | 4.71 | 4.25 to 5.75 | 93.4 | 70.0 to 130 | 0.00 | 20.0 |
| BC13445 | Sulfate | mg/L | -0.435 | 2.0 | 20.0 | 20.5 | 20.2 | 19.3 | 18.0 to 22.0 | 102 | 80.0 to 120 | 1.47 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 7/20/22 09:30

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC13445

| Sample | Analysis | Units | MB | MB | | | | Standard | | Rec | | Prec | | |
|---------|----------------------|-------|------------|----------|-------|-------|-------|----------|-----------------|-----|-------|-------------|-------|------|
| | | | | Limit | Spike | MS | MSD | Standard | Limit | Rec | Limit | Prec | Limit | |
| BC13445 | Thallium, Total | mg/L | -0.0000346 | 0.000147 | 0.100 | 0.101 | 0.100 | 0.101 | 0.0850 to 0.115 | | 101 | 70.0 to 130 | 0.995 | 20.0 |
| BC13445 | Total Organic Carbon | mg/L | 0.178 | 1.00 | 10.0 | 8.27 | 8.73 | 8.70 | | | 82.7 | 80.0 to 120 | 5.41 | 20.0 |

Comments:

Batch QC Summary

Customer Account: WMWGORAPEB

Sample Date: 7/20/22 09:30

Customer ID:

Delivery Date: 7/21/22 09:00

Description: Gorgas Ash Pond Equipment Blank-1

Laboratory ID Number: BC13445

| Sample | Analysis | Units | MB | MB Limit | Spike | MS | Sample Duplicate | Standard | Standard Limit | Rec | Rec Limit | Prec | Prec Limit |
|---------|---------------------------|-----------|--------|-------------|-------|------|---------------------|----------|-------------------|-----|--------------|------|---------------|
| BC13445 | Nitrogen, Nitrate/Nitrite | mg/L as N | 0.10 | 0.200 | 2.00 | 2.06 | 0.103 | 1.99 | 1.80 to 2.20 | 103 | 90.0 to 110 | 0.00 | 15.0 |
| BC13443 | Solids, Dissolved | mg/L | 0.0000 | 25.0 | | | 426 | 50.0 | 40.0 to 60.0 | | | 8.54 | 10.0 |

Comments:

Definitions

Project Number: WMWGORAP_1378

| Abbreviation | Description |
|--------------|---|
| DF | Dilution Factor |
| LCS | Lab Control Sample |
| LFM | Lab Fortified Matrix |
| MB | Method Blank |
| MDL | Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero. |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| Prec | Precision (% RPD) |
| Q | Qualifier; comment used to note deviations or additional information associated with analytical results. |
| QC | Quality Control |
| Rec | Recovery of Matrix Spike |
| RL | Reporting Limit; lowest concentration at which an analyte can be quantitatively measured. |
| Vio Spec | Violation Specification; regulatory limit which has been exceeded by the sample analyzed. |

| Qualifier | Description |
|-----------|---|
| FA | Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative. |
| J | Reported value is an estimate because concentration is less than reporting limit. |
| R | Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit. |
| RA | Matrix spike is invalid due to sample concentration. |
| U | Compound was analyzed, but not detected. |

August 30, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWGORAP_1378
Pace Project No.: 30510110

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on August 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WMWGORAP_1378
Pace Project No.: 30510110

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WMWGORAP_1378

Pace Project No.: 30510110

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------------|--------|----------------|----------------|
| 30510110001 | BC13446 MW-44HO | Water | 07/20/22 08:32 | 08/01/22 10:45 |
| 30510110002 | BC13446 MW-44HO MS | Water | 07/20/22 08:32 | 08/01/22 10:45 |
| 30510110003 | BC13446 MW-44HO MSD | Water | 07/20/22 08:32 | 08/01/22 10:45 |
| 30510110004 | BC13447 MW-44HO DUP | Water | 07/20/22 08:32 | 08/01/22 10:45 |
| 30510110005 | BC13448 FB-1 | Water | 07/20/22 09:15 | 08/01/22 10:45 |
| 30510110006 | BC13449 EB-1 | Water | 07/20/22 09:30 | 08/01/22 10:45 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WMWGORAP_1378
Pace Project No.: 30510110

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------------|--------------------------|----------|-------------------|------------|
| 30510110001 | BC13446 MW-44HO | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30510110002 | BC13446 MW-44HO MS | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30510110003 | BC13446 MW-44HO MSD | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 30510110004 | BC13447 MW-44HO DUP | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30510110005 | BC13448 FB-1 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 30510110006 | BC13449 EB-1 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1378

Pace Project No.: 30510110

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: August 30, 2022

General Information:

6 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1378

Pace Project No.: 30510110

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: August 30, 2022

General Information:

6 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WMWGORAP_1378

Pace Project No.: 30510110

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: August 30, 2022

General Information:

4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1378

Pace Project No.: 30510110

Sample: BC13446 MW-44HO **Lab ID: 30510110001** Collected: 07/20/22 08:32 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.0554U ± 0.0957 (0.285) C:90% T:NA | pCi/L | 08/29/22 11:49 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0778U ± 0.273 (0.621) C:73% T:95% | pCi/L | 08/25/22 11:35 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.0778U ± 0.369 (0.906) | pCi/L | 08/29/22 16:17 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1378

Pace Project No.: 30510110

Sample: BC13446 MW-44HO MS **Lab ID: 30510110002** Collected: 07/20/22 08:32 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 110.99 %REC ± NA (NA) C:NA T:NA | pCi/L | 08/29/22 11:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 92.29 %REC ± NA (NA) C:NA T:NA | pCi/L | 08/25/22 11:35 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1378

Pace Project No.: 30510110

Sample: BC13446 MW-44HO MSD **Lab ID: 30510110003** Collected: 07/20/22 08:32 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|----------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 100.09 %REC 10.33RPD ± NA (NA) C:NA T:NA | pCi/L | 08/29/22 11:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 92.93 %REC 0.69 RPD ± NA (NA) C:NA T:NA | pCi/L | 08/25/22 11:35 | 15262-20-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1378

Pace Project No.: 30510110

Sample: BC13447 MW-44HO DUP **Lab ID: 30510110004** Collected: 07/20/22 08:32 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.254U ± 0.162 (0.262) C:93% T:NA | pCi/L | 08/29/22 11:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.917 ± 0.397 (0.638) C:76% T:93% | pCi/L | 08/25/22 11:35 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.17 ± 0.559 (0.900) | pCi/L | 08/29/22 16:17 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1378

Pace Project No.: 30510110

Sample: BC13448 FB-1 **Lab ID: 30510110005** Collected: 07/20/22 09:15 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.256U ± 0.213 (0.411) C:86% T:NA | pCi/L | 08/29/22 11:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.886 ± 0.407 (0.655) C:66% T:90% | pCi/L | 08/25/22 11:36 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.14 ± 0.620 (1.07) | pCi/L | 08/29/22 16:17 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGORAP_1378

Pace Project No.: 30510110

Sample: BC13449 EB-1 **Lab ID: 30510110006** Collected: 07/20/22 09:30 Received: 08/01/22 10:45 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|---|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0286U ± 0.118 (0.281) C:95% T:NA | pCi/L | 08/29/22 11:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.387U ± 0.319 (0.632) C:74% T:92% | pCi/L | 08/25/22 11:36 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.416U ± 0.437 (0.913) | pCi/L | 08/29/22 16:17 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORAP_1378

Pace Project No.: 30510110

QC Batch: 522973

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30510110001, 30510110002, 30510110003, 30510110004, 30510110005, 30510110006

METHOD BLANK: 2535155

Matrix: Water

Associated Lab Samples: 30510110001, 30510110002, 30510110003, 30510110004, 30510110005, 30510110006

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.189 ± 0.168 (0.271) C:94% T:NA | pCi/L | 08/29/22 10:44 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGORAP_1378

Pace Project No.: 30510110

QC Batch: 523291

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30510110001, 30510110002, 30510110003, 30510110004, 30510110005, 30510110006

METHOD BLANK: 2536921

Matrix: Water

Associated Lab Samples: 30510110001, 30510110002, 30510110003, 30510110004, 30510110005, 30510110006

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.335 ± 0.306 (0.620) C:77% T:93% | pCi/L | 08/25/22 11:35 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WMWGORAP_1378
Pace Project No.: 30510110

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGORAP_1378
Pace Project No.: 30510110

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------------|--------------------------|----------|-------------------|------------------|
| 30510110001 | BC13446 MW-44HO | EPA 9315 | 522973 | | |
| 30510110002 | BC13446 MW-44HO MS | EPA 9315 | 522973 | | |
| 30510110003 | BC13446 MW-44HO MSD | EPA 9315 | 522973 | | |
| 30510110004 | BC13447 MW-44HO DUP | EPA 9315 | 522973 | | |
| 30510110005 | BC13448 FB-1 | EPA 9315 | 522973 | | |
| 30510110006 | BC13449 EB-1 | EPA 9315 | 522973 | | |
| 30510110001 | BC13446 MW-44HO | EPA 9320 | 523291 | | |
| 30510110002 | BC13446 MW-44HO MS | EPA 9320 | 523291 | | |
| 30510110003 | BC13446 MW-44HO MSD | EPA 9320 | 523291 | | |
| 30510110004 | BC13447 MW-44HO DUP | EPA 9320 | 523291 | | |
| 30510110005 | BC13448 FB-1 | EPA 9320 | 523291 | | |
| 30510110006 | BC13449 EB-1 | EPA 9320 | 523291 | | |
| 30510110001 | BC13446 MW-44HO | Total Radium Calculation | 529163 | | |
| 30510110004 | BC13447 MW-44HO DUP | Total Radium Calculation | 529163 | | |
| 30510110005 | BC13448 FB-1 | Total Radium Calculation | 529163 | | |
| 30510110006 | BC13449 EB-1 | Total Radium Calculation | 529163 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| | | | | | |
|--|--|---|------------------------------|--|-----------------------------------|
| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company: | Alabama Power Company | Report To: | Renee Jernigan | Attention: | Renee Jernigan |
| Address: | 744 Highway 87 GSC Bldg #8 Calera, AL 35040 | Copy To: | Brooke Caton & Blaine Denton | Company Name: | Alabama Power Co. |
| Email To: | rgamer@southernco.com | Purchase Order #: | APC10755638 | Address: | 744 Highway 87 GSC Bldg #8 CCR |
| Phone: | 205-664-6247 Fax: | Project Name: | Plant Gorgas Ash Pond | Pace Project Manager: | Skyler Richmond |
| Requested Due Date: | Normal | Project Number: | WMWGORAP 1378 | Pace Profile #: | 16788 |

| ITEM # | Description | Station Name Location_Code | Site Name Facility_ID | Sample Duplicate | Matrix Spike/Matrix Spike Duplicate | Field Filtered | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | Preservatives | Y/N | EPA 9315 | EPA 9320 | Total Radium Sum | Total Sulfide | Residual Chlorine (Y/N) |
|--------|-------------|----------------------------|-----------------------|------------------|-------------------------------------|----------------|-------------|-----------------------------|-----------|------|---------------|-----|----------|----------|------------------|---------------|-------------------------|
| | | | | | | | | | DATE | TIME | | | | | | | |
| 1 | BC13446 | APCO-GS-AP-MW-44HO | APCO_Gorgas_AshPond | | X | | GW | G | 7/20/2022 | 8:32 | X | X | X | X | | | |
| 2 | BC13447 | APCO-GS-AP-MW-44HO | APCO_Gorgas_AshPond | X | | | GW | G | 7/20/2022 | 8:32 | X | X | X | X | | | |
| 3 | BC13448 | APCO-GS-AP-FB-01 | APCO_Gorgas_AshPond | | | | GW | G | 7/20/2022 | 9:15 | X | X | X | X | | | |
| 4 | BC13449 | APCO-GS-AP-EB-01 | APCO_Gorgas_AshPond | | | | GW | G | 7/20/2022 | 9:30 | X | X | X | X | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |

NO#: 30510110



30510110

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|-----------|-------|---------------------------|--------|------|-------------------|
| | Renee Jernigan/ APC GTL | 7/27/2022 | 15:15 | <i>[Signature]</i> | 6-1-20 | 1045 | |
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| | | | | | | | |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Anthony Goggins
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: _____

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 5870 1897 4287

| | |
|------------|-----------|
| Label | <u>PS</u> |
| LIMS Login | <u>VP</u> |

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used _____ Type of Ice: None Wet Blue

Cooler Temperature _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

| | |
|----------------|---|
| pH paper Lot# | Date and initials of person examining contents: |
| <u>1000421</u> | <u>PS 8/1/22</u> |

| Comments: | Yes | No | N/A | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|--|
| Chain of Custody Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. |
| Sampler Name & Signature on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. |
| Sample Labels match COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5. |
| -Includes date/time/ID Matrix: <u>WT</u> | | | | |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. |
| Short Hold Time Analysis (<72hr remaining): | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. |
| Sufficient Volume: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. |
| Correct Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 10. |
| -Pace Containers Used: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Containers Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 11. |
| Orthophosphate field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 12. |
| Hex Cr Aqueous sample field filtered | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 13. |
| Organic Samples checked for dechlorination: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 14. |
| Filtered volume received for Dissolved tests | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 15. |
| All containers have been checked for preservation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 16. |
| exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix | | | | <u>PH<2</u> |
| All containers meet method preservation requirements. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>PS</u> Date/time of preservation: _____ |
| | | | | Lot # of added preservative: _____ |
| Headspace in VOA Vials (>6mm): | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 17. |
| Trip Blank Present: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 18. |
| Trip Blank Custody Seals Present | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Rad Samples Screened < 0.5 mrem/hr | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Initial when completed: <u>PS</u> Date: <u>8/1/22</u> Survey Meter SN: <u>1563</u> |

WO#: 30510110
 PM: SCR Due Date: 08/29/22
 CLIENT: ALABAMA PWR

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 8/5/2022
Worklist: 68096
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2536921 |
| MB concentration: | 0.335 |
| MB 2 Sigma CSU: | 0.306 |
| MB MDC: | 0.620 |
| MB Numerical Performance Indicator: | 2.14 |
| MB Status vs Numerical Indicator: | Warning |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | |
|---|-----------|
| LCSD (Y or N)? | N |
| LCSD68096 | LCSD68096 |
| Count Date: | 8/25/2022 |
| Spike I.D.: | 22-016 |
| Decay Corrected Spike Concentration (pCi/mL): | 34.560 |
| Volume Used (mL): | 0.10 |
| Aliquot Volume (L, g, F): | 0.807 |
| Target Conc. (pCi/L, g, F): | 4.284 |
| Uncertainty (Calculated): | 0.210 |
| Result (pCi/L, g, F): | 4.461 |
| LCSD 2 Sigma CSU (pCi/L, g, F): | 0.999 |
| Numerical Performance Indicator: | 0.34 |
| Percent Recovery: | 104.12% |
| Status vs Numerical Indicator: | N/A |
| Upper % Recovery Limits: | Pass |
| Lower % Recovery Limits: | 135% |
| | 60% |

| Duplicate Sample Assessment | |
|--|---|
| Sample I.D.: | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
| Duplicate Sample I.D.: | |
| Sample Result (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | See Below ## |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

| Sample Matrix Spike Control Assessment | | |
|--|-------------|-------------|
| Sample Collection Date: | MS/MSD 1 | MS/MSD 2 |
| Sample I.D. | 7/25/2022 | 7/25/2022 |
| Sample MS I.D. | 30510110001 | 30510112001 |
| Sample MSD I.D. | 30510110002 | 30510112002 |
| Spike I.D.: | 30510110003 | 30510112003 |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 22-016 | 22-016 |
| Spike Volume Used in MS (mL): | 34.975 | 34.975 |
| Spike Volume Used in MSD (mL): | 0.20 | 0.20 |
| MS Aliquot (L, g, F): | 0.20 | 0.20 |
| MS Target Conc. (pCi/L, g, F): | 0.808 | 0.800 |
| MSD Target Conc. (pCi/L, g, F): | 8.654 | 8.740 |
| MSD Aliquot (L, g, F): | 0.807 | 0.807 |
| MSD Target Conc. (pCi/L, g, F): | 8.670 | 8.669 |
| MS Spike Uncertainty (calculated): | 0.424 | 0.428 |
| MSD Spike Uncertainty (calculated): | 0.425 | 0.425 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.078 | 0.550 |
| Sample Matrix Spike Result: | 0.273 | 0.342 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 8.065 | 8.521 |
| Sample Matrix Spike Duplicate Result: | 1.619 | 1.699 |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 8.135 | 8.295 |
| MS Numerical Performance Indicator: | 1.635 | 1.683 |
| MS Percent Recovery: | -0.771 | -0.844 |
| MSD Numerical Performance Indicator: | -0.702 | -1.023 |
| MSD Percent Recovery: | 92.29% | 91.20% |
| MS Status vs Numerical Indicator: | 92.93% | 89.34% |
| MS Status vs Numerical Indicator: | Pass | Pass |
| MS Status vs Recovery: | Pass | Pass |
| MS/MSD Upper % Recovery Limits: | Pass | Pass |
| MS/MSD Lower % Recovery Limits: | 135% | 135% |
| | 60% | 60% |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
|--|-------------|-------------|
| Sample I.D. | MS/MSD 1 | MS/MSD 2 |
| Sample I.D. | 30510110001 | 30510112001 |
| Sample MS I.D. | 30510110002 | 30510112002 |
| Sample MSD I.D. | 30510110003 | 30510112003 |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | 8.065 | 8.521 |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.619 | 1.699 |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 8.135 | 8.295 |
| Duplicate Numerical Performance Indicator: | 1.635 | 1.683 |
| Duplicate Numerical Performance Indicator: | -0.059 | 0.185 |
| Duplicate Numerical Performance Indicator: | 0.69% | 2.05% |
| Duplicate Status vs Numerical Indicator: | Pass | Pass |
| Duplicate Status vs RPD: | Pass | Pass |
| % RPD Limit: | 36% | 36% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Am 8/30/22

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-226
Analyst: RMS
Date: 8/12/2022
Worklist: 68078
Matrix: DW

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2595155 |
| MB concentration: | 0.189 |
| M/B Counting Uncertainty: | 0.166 |
| MB MDC: | 0.271 |
| MB Numerical Performance Indicator: | 2.23 |
| MB Status vs Numerical Indicator: | N/A |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | |
|---|-----------|
| LCSD (Y or N)? | N |
| Count Date: | 8/29/2022 |
| Spike I.D.: | 19-033 |
| Decay Corrected Spike Concentration (pCi/mL): | 24.024 |
| Volume Used (mL): | 0.10 |
| Aliquot Volume (L, g, F): | 0.206 |
| Target Conc. (pCi/L, g, F): | 11.654 |
| Uncertainty (Calculated): | 0.140 |
| Result (pCi/L, g, F): | 13.117 |
| LCSD/LCSD Counting Uncertainty (pCi/L, g, F): | 1.206 |
| Numerical Performance Indicator: | 2.36 |
| Percent Recovery: | 112.56% |
| Status vs Numerical Indicator: | N/A |
| Status vs Recovery: | Pass |
| Upper % Recovery Limits: | 125% |
| Lower % Recovery Limits: | 75% |

| Sample Matrix Spike Control Assessment | | |
|---|-------------|-------------|
| Sample Collection Date: | MS/MSD 1 | MS/MSD 2 |
| Sample I.D.: | 7/20/2022 | 7/25/2022 |
| Sample MS I.D.: | 30510110001 | 30510112001 |
| Sample MSD I.D.: | 30510110002 | 30510112002 |
| Spike I.D.: | 30510110003 | 30510112003 |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | 19-033 | 19-033 |
| Spike Volume Used in MSD (mL): | 24.025 | 24.025 |
| MS Aliquot (L, g, F): | 0.20 | 0.20 |
| MS Target Conc. (pCi/L, g, F): | 0.201 | 0.193 |
| MSD Target Conc. (pCi/L, g, F): | 23.930 | 24.904 |
| MS Spike Uncertainty (calculated): | 0.294 | 0.300 |
| MSD Spike Uncertainty (calculated): | 0.287 | 0.299 |
| Sample Result Counting Uncertainty (pCi/L, g, F): | -0.055 | 0.132 |
| Sample Matrix Spike Result: | 0.095 | 0.143 |
| Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | 27.160 | 27.989 |
| Sample Matrix Spike Duplicate Result: | 1.280 | 1.906 |
| Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 23.895 | 23.149 |
| MS Numerical Performance Indicator: | 1.167 | 1.654 |
| MS Percent Recovery: | 4.011 | 2.891 |
| MSD Numerical Performance Indicator: | 110.99% | 111.41% |
| MSD Percent Recovery: | 100.09% | 92.42% |
| MS Status vs Numerical Indicator: | N/A | N/A |
| MSD Status vs Numerical Indicator: | N/A | N/A |
| MS Status vs Recovery: | Pass | Pass |
| MSD Status vs Recovery: | Pass | Pass |
| MS/MSD Upper % Recovery Limits: | 125% | 125% |
| MS/MSD Lower % Recovery Limits: | 75% | 75% |

| Duplicate Sample Assessment | |
|---|--------------|
| Sample I.D.: | See Below ## |
| Duplicate Sample I.D.: | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | |
| Sample Duplicate Result (pCi/L, g, F): | |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | |
| Are sample and/or duplicate results below RL? | |
| Duplicate Numerical Performance Indicator: | |
| Duplicate RPD: | |
| Duplicate Status vs Numerical Indicator: | |
| Duplicate Status vs RPD: | |
| % RPD Limit: | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
|--|-------------|-------------|
| Sample I.D.: | 30510110001 | 30510112001 |
| Sample MS I.D.: | 30510110002 | 30510112002 |
| Sample MSD I.D.: | 30510110003 | 30510112003 |
| Sample Matrix Spike Result: | 27.160 | 27.989 |
| Sample Matrix Spike Duplicate Result: | 1.280 | 1.906 |
| Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | 23.895 | 23.149 |
| Duplicate Numerical Performance Indicator: | 1.167 | 1.654 |
| MS/MSD Duplicate Status vs Numerical Indicator: | 3.695 | 3.759 |
| MS/MSD Duplicate Status vs RPD: | 10.33% | 18.63% |
| % RPD Limit: | N/A | N/A |
| MS/MSD Upper % Recovery Limits: | Pass | Pass |
| MS/MSD Lower % Recovery Limits: | 25% | 25% |

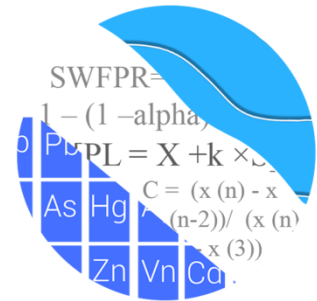
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature/initials

Appendix D

GROUNDWATER STATS CONSULTING



May 18, 2022

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Gorgas Ash Pond
1st Semi-Annual Statistical Analysis – February/March 2022 Sampling Event

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the 1st Semi-Annual February/March 2022 sample event for Alabama Power Company's Plant Gorgas Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency Unified Guidance (2009).

Sampling began at site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GS-AP-MW-8, GS-AP-MW-13, and GS-AP-MW-17V
 - **Proposed Upgradient:** GS-AP-MW-16S
- **Downgradient wells:** GS-AP-MW-1R, GS-AP-MW-2, GS-AP-MW-3, GS-AP-MW-3V, GS-AP-MW-5R, GS-AP-MW-6, GS-AP-MW-6D, GS-AP-MW-7, GSA-AP-MW-9V, GS-AP-MW-9R, GS-AP-MW-10R, GS-AP-MW-11R, GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-13R, GS-AP-MW-14R, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-18R, GS-AP-MW-18VR, GS-AP-MW-19, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-45V, GS-AP-MW-46, and GS-AP-MW-47
- **Delineation wells:** GS-AP-PZ-16, GS-AP-PZ-18R, GS-AP-PZ-22, GS-AP-MW-23H, GS-AP-MW-23V, GS-AP-MW-24H, GS-AP-MW-25HA, GS-AP-MW-26H, GS-AP-MW-27HR, GS-AP-MW-28H, GS-AP-MW-29H, GS-AP-MW-30HA,

GS-AP-MW-31H, GS-AP-MW-31V, GS-AP-MW-32H, GS-AP-MW-33HO, GS-AP-MW-34HO, GS-AP-MW-35HO, GS-AP-MW-36H, GS-AP-MW-36V, GS-AP-MW-37HR, GS-AP-MW-38H, GS-AP-MW-40HO, GS-AP-MW-41HD, GS-AP-MW-41HS, GS-AP-MW-42H, GS-AP-MW-43HO, GS-AP-MW-44HO, and GS-AP-MW-6V

- **Piezometers:** GS-AP-MW-1, GS-AP-MW-4, GS-AP-MW-7V, GS-AP-MW-7VR, GS-AP-MW-20, GS-AP-MW-25H, GS-AP-MW-27H, GS-AP-MW-30H, and GS-AP-MW-30HS

Note that data from delineation wells were plotted on time series graphs and box plots, but do not require formal statistics. Additionally, the list of piezometers is included above for recordkeeping purposes, but data are not analyzed in this analysis.

New downgradient wells GS-AP-MW-1R, GS-AP-MW-3V, GS-AP-MW-5R, GS-AP-MW-9R, GS-AP-MW-10R, GS-AP-MW-11R, GS-AP-MW-13R, GS-AP-MW-18R, GS-AP-MW-18VR, GS-AP-MW-45V, GS-AP-MW-46, and GS-AP-MW-47 and new delineation wells GS-AP-PZ-18R, GS-AP-MW-23V, GS-AP-MW-27HR, GS-AP-MW-31V, GS-AP-MW-36V, and GS-AP-MW-37HR were installed in late 2021 after the Fall analysis. Data from these wells, along with well GS-AP-MW-3 are plotted on the time series graphs and box plots and will be included in the statistical analyses when sufficient data are available.

Upgradient well GS-AP-MW-13 was abandoned in April 2019; however, data from this well is used for constructing interwell statistical limits as historical concentrations represent the groundwater quality upgradient of the facility. Proposed upgradient well GS-AP-MW-16S is being evaluated for inclusion into the monitoring well network. Data from this well are plotted on the time series graphs and box plots, but are not yet used for the purpose of constructing statistical limits.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

The CCR program consists of the following constituents:

Appendix III (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Appendix IV (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). A substitution of the most recent reporting limit is used for non-detect data. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves are provided in this report to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods and site/data characteristics:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples: 37
- # Constituents: 7
- # Downgradient wells: 11

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, the following statistical methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Update Summary – Conducted in September 2019

Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event. Data from upgradient wells are periodically re-

screened for newly developing trends, which may require adjustment of the background period to eliminate the trend, as well as for outliers over the entire record. As discussed in the Statistical Analysis Plan (August 2020), interwell prediction limits are used to evaluate boron, calcium, chloride, fluoride, sulfate, pH, and TDS.

Prior to performing prediction limits, proposed background data through April 2019 were reviewed to identify any newly suspected outliers at upgradient wells for boron, calcium, chloride, fluoride, pH, sulfate, and TDS. Both Tukey's Test and visual screening are used to identify potential outliers. When identified, values were flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. Potential outliers that were identified by Tukey's test but are not greatly different from the rest of the data were not flagged. Also, outliers that are not identified as important by Tukey's test may be identified visually. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary of Tukey's test results was included with the September 2019 screening.

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data from upgradient wells for all parameters which utilize interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data is deselected prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. Statistically significant trends were noted in upgradient wells. No adjustments were required, however, because the period of record was short and the magnitudes of the trends were low relative to the average concentrations in background. A summary of the results was included with the September 2019 screening.

Evaluation of Appendix III Parameters – February/March 2022

Background (upgradient) well data were re-assessed for potential outliers during this analysis and no new values were flagged. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of previously flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, sulfate, pH, and TDS (Figure D). Interwell prediction limits pool upgradient well data through March 2022 to establish a background limit for

an individual constituent. The February/March 2022 sample from each downgradient well is compared to the background limits to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research is required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. Exceedances for interwell prediction limits were identified for several well/constituent pairs and a summary of the prediction limit results may be found in the Prediction Limit Summary tables following this letter.

Trend Test Evaluation

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. The existence of similar trends in both upgradient and downgradient wells is an indication of natural variability in groundwater that is unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: GS-AP-MW-6D and GS-AP-MW-7
- Calcium: GS-AP-MW-6D and GS-AP-MW-19
- Chloride: GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-8 (upgradient) and GS-AP-MW-21
- Fluoride: GS-AP-MW-13 (upgradient)
- pH: GS-AP-MW-2, GS-AP-MW-12, GS-AP-MW-15
- Sulfate: GS-AP-MW-12 and GS-AP-MW-21
- TDS: GS-AP-MW-17 and GS-AP-MW-21

Decreasing:

- Boron: GS-AP-MW-6
- Fluoride: GS-AP-MW-2
- Sulfate: GS-AP-MW-6

Evaluation of Appendix IV Parameters – February 2022/March 2022

Data from upgradient wells for Appendix IV parameters were assessed for outliers during previous analyses. A summary of flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management (ADEM), the Groundwater Protections Standards (GWPS) were updated during the 2021 2nd semi-annual statistical analysis. The GWPS will be updated again during the 2023 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

Interwell Upper Tolerance Limits

First, background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data through August 2021. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed (Figure F). The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two was used as the GWPS (Figure G) in the confidence interval comparisons described below.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through March 2022 for each of the Appendix IV parameters. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects.

As mentioned above, well/constituent pairs containing 100% non-detects for the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of those deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter. Exceedances were noted for the following well/constituent pairs:

- Arsenic: GS-AP-MW-6D and GS-AP-MW-7
- Lithium: GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-15, and GS-AP-MW-21
- Molybdenum: GS-AP-MW-7

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Gorgas Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

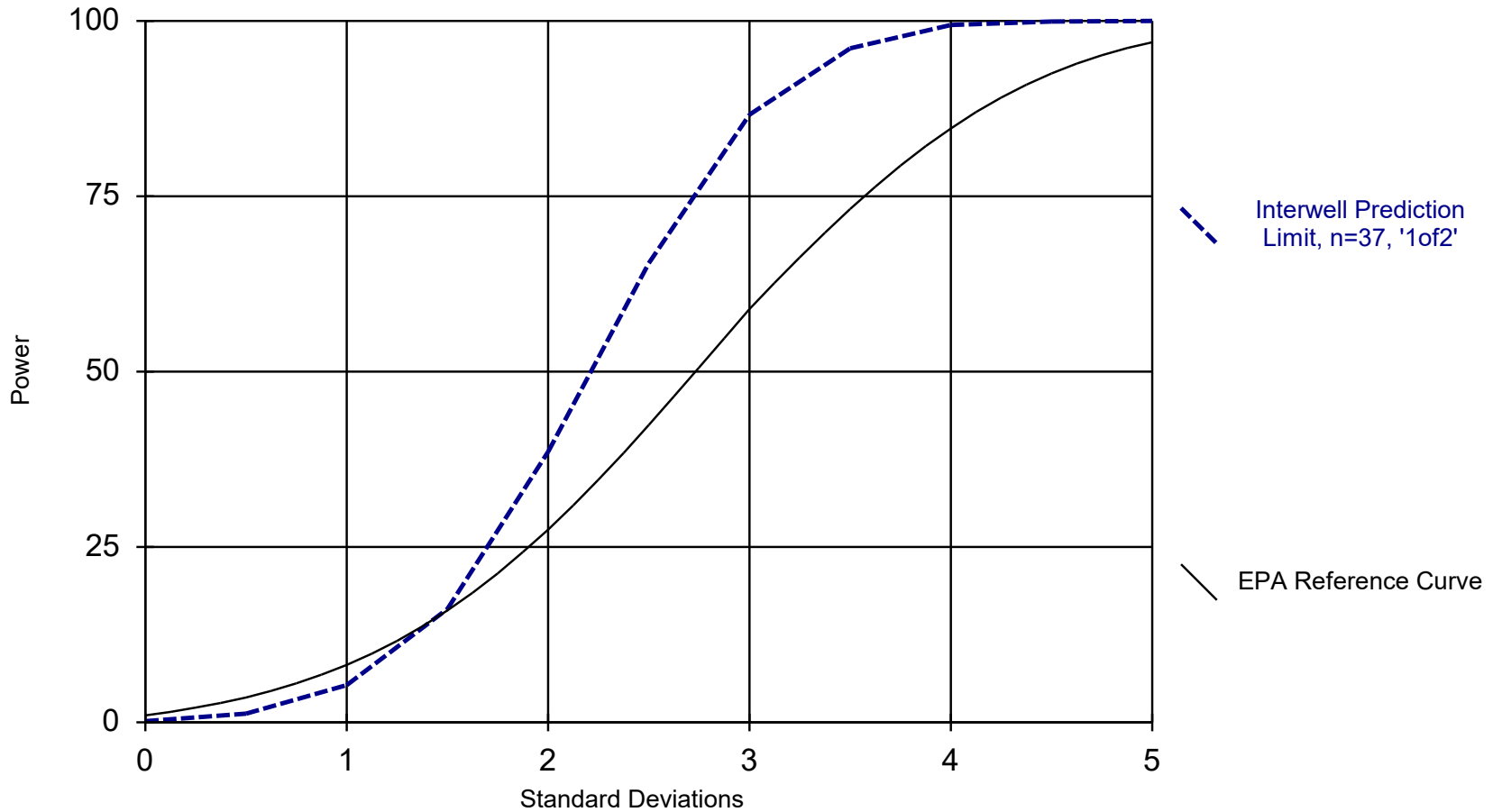


Andrew Collins
Project Manager



Kristina Rayner
Senior Statistician

Interwell Power Curve



Kappa = 2.109, based on 11 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 5/18/2022 4:08 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/16/2022 4:47 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Antimony (mg/L)

GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-3, GS-AP-MW-9V

Arsenic (mg/L)

GS-AP-MW-2

Beryllium (mg/L)

GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-9V

Cadmium (mg/L)

GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-6, GS-AP-MW-7, GS-AP-MW-9V

Cobalt (mg/L)

GS-AP-MW-12, GS-AP-MW-15V, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-9V

Lead (mg/L)

GS-AP-MW-12, GS-AP-MW-15V, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-9V

Mercury (mg/L)

GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-6, GS-AP-MW-7, GS-AP-MW-9V

Selenium (mg/L)

GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-9V

Thallium (mg/L)

GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-6, GS-AP-MW-7, GS-AP-MW-9V

Interwell Prediction Limits - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:02 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------|--------------|------------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L) | GS-AP-MW-2 | 0.1015 | n/a | 2/22/2022 | 0.112 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-21 | 0.1015 | n/a | 2/8/2022 | 0.111 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-3 | 0.1015 | n/a | 2/16/2022 | 0.311 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6D | 0.1015 | n/a | 2/14/2022 | 1.29 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6 | 0.1015 | n/a | 2/14/2022 | 0.978 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-7 | 0.1015 | n/a | 2/8/2022 | 1.69 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-19 | 48.1 | n/a | 2/22/2022 | 54.6 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-23H | 48.1 | n/a | 2/14/2022 | 74.4 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6D | 48.1 | n/a | 2/14/2022 | 55.7 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6 | 48.1 | n/a | 2/14/2022 | 60.1 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15 | 4.264 | n/a | 2/16/2022 | 5.86 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15V | 4.264 | n/a | 2/16/2022 | 129 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-17 | 4.264 | n/a | 2/14/2022 | 7.15 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-19 | 4.264 | n/a | 2/22/2022 | 4.59 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-2 | 4.264 | n/a | 2/22/2022 | 6.05 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-21 | 4.264 | n/a | 2/8/2022 | 41.4 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-23H | 4.264 | n/a | 2/14/2022 | 12.8 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-3 | 4.264 | n/a | 2/16/2022 | 14 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6D | 4.264 | n/a | 2/14/2022 | 11.7 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6 | 4.264 | n/a | 2/14/2022 | 20.6 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-7 | 4.264 | n/a | 2/8/2022 | 7.475 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-9V | 4.264 | n/a | 2/21/2022 | 18.4 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.2798 | n/a | 2/16/2022 | 0.349 | Yes | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.2798 | n/a | 2/22/2022 | 0.819 | Yes | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| pH (SU) | GS-AP-MW-12 | 7.76 | 5.02 | 2/28/2022 | 8.12 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15 | 7.76 | 5.02 | 2/16/2022 | 11.57 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15V | 7.76 | 5.02 | 2/16/2022 | 8.65 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-17 | 7.76 | 5.02 | 2/14/2022 | 8.32 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-2 | 7.76 | 5.02 | 2/22/2022 | 9.42 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-21 | 7.76 | 5.02 | 2/8/2022 | 10.26 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-3 | 7.76 | 5.02 | 2/16/2022 | 7.78 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-12 | 15.2 | n/a | 2/28/2022 | 17.9 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-15V | 15.2 | n/a | 2/16/2022 | 224 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-2 | 15.2 | n/a | 2/22/2022 | 17.1 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-21 | 15.2 | n/a | 2/8/2022 | 241 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-23H | 15.2 | n/a | 2/14/2022 | 356 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-3 | 15.2 | n/a | 2/16/2022 | 91.2 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6D | 15.2 | n/a | 2/14/2022 | 58.3 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6 | 15.2 | n/a | 2/14/2022 | 115 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-7 | 15.2 | n/a | 2/8/2022 | 137 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-9V | 15.2 | n/a | 2/21/2022 | 32.4 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15 | 368 | n/a | 2/16/2022 | 426 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15V | 368 | n/a | 2/16/2022 | 782 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-17 | 368 | n/a | 2/14/2022 | 448 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-21 | 368 | n/a | 2/8/2022 | 570 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-23H | 368 | n/a | 2/14/2022 | 592 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |

Interwell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:02 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|------------------------|---------------------|---------------|------------|------------------|--------------|------------|-----------|---------------|----------------|--------------|-------------|------------|------------------|------------------------------------|
| Boron (mg/L) | GS-AP-MW-12 | 0.1015 | n/a | 2/28/2022 | 0.0305J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-12V | 0.1015 | n/a | 2/23/2022 | 0.1015ND | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-15 | 0.1015 | n/a | 2/16/2022 | 0.0323J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-15V | 0.1015 | n/a | 2/16/2022 | 0.0594J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-16D | 0.1015 | n/a | 2/15/2022 | 0.1015ND | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-17 | 0.1015 | n/a | 2/14/2022 | 0.073J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-19 | 0.1015 | n/a | 2/22/2022 | 0.1015ND | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-2 | 0.1015 | n/a | 2/22/2022 | 0.112 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-21 | 0.1015 | n/a | 2/8/2022 | 0.111 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-23H | 0.1015 | n/a | 2/14/2022 | 0.035J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-3 | 0.1015 | n/a | 2/16/2022 | 0.311 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6D | 0.1015 | n/a | 2/14/2022 | 1.29 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6 | 0.1015 | n/a | 2/14/2022 | 0.978 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-7 | 0.1015 | n/a | 2/8/2022 | 1.69 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-9V | 0.1015 | n/a | 2/21/2022 | 0.0349J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-12 | 48.1 | n/a | 2/28/2022 | 37.9 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-12V | 48.1 | n/a | 2/23/2022 | 46.3 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-15 | 48.1 | n/a | 2/16/2022 | 6.76 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-15V | 48.1 | n/a | 2/16/2022 | 14.3 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-16D | 48.1 | n/a | 2/15/2022 | 31.5 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-17 | 48.1 | n/a | 2/14/2022 | 2.17 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-19 | 48.1 | n/a | 2/22/2022 | 54.6 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-2 | 48.1 | n/a | 2/22/2022 | 0.413 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-21 | 48.1 | n/a | 2/8/2022 | 1.98 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-23H | 48.1 | n/a | 2/14/2022 | 74.4 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-3 | 48.1 | n/a | 2/16/2022 | 18.6 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6D | 48.1 | n/a | 2/14/2022 | 55.7 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6 | 48.1 | n/a | 2/14/2022 | 60.1 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-7 | 48.1 | n/a | 2/8/2022 | 10.7 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-9V | 48.1 | n/a | 2/21/2022 | 47.7 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-12 | 4.264 | n/a | 2/28/2022 | 3.34 | No | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-12V | 4.264 | n/a | 2/23/2022 | 3.83 | No | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15 | 4.264 | n/a | 2/16/2022 | 5.86 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15V | 4.264 | n/a | 2/16/2022 | 129 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-16D | 4.264 | n/a | 2/15/2022 | 3.58 | No | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-17 | 4.264 | n/a | 2/14/2022 | 7.15 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-19 | 4.264 | n/a | 2/22/2022 | 4.59 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-2 | 4.264 | n/a | 2/22/2022 | 6.05 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-21 | 4.264 | n/a | 2/8/2022 | 41.4 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-23H | 4.264 | n/a | 2/14/2022 | 12.8 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-3 | 4.264 | n/a | 2/16/2022 | 14 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6D | 4.264 | n/a | 2/14/2022 | 11.7 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6 | 4.264 | n/a | 2/14/2022 | 20.6 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-7 | 4.264 | n/a | 2/8/2022 | 7.475 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-9V | 4.264 | n/a | 2/21/2022 | 18.4 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-12 | 0.2798 | n/a | 2/28/2022 | 0.12 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-12V | 0.2798 | n/a | 2/23/2022 | 0.153 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.2798 | n/a | 2/16/2022 | 0.349 | Yes | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-15V | 0.2798 | n/a | 2/16/2022 | 0.208 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-16D | 0.2798 | n/a | 2/15/2022 | 0.114 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-17 | 0.2798 | n/a | 2/14/2022 | 0.206 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-19 | 0.2798 | n/a | 2/22/2022 | 0.259 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.2798 | n/a | 2/22/2022 | 0.819 | Yes | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-21 | 0.2798 | n/a | 2/8/2022 | 0.175 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-23H | 0.2798 | n/a | 2/14/2022 | 0.14 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |

Interwell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:02 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|---------------------|-------------|-------------|------------------|--------------|------------|-----------|------------|------------|----------|------------|------------|-----------------|------------------------------------|
| Fluoride (mg/L) | GS-AP-MW-3 | 0.2798 | n/a | 2/16/2022 | 0.05ND | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-6D | 0.2798 | n/a | 2/14/2022 | 0.108 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-6 | 0.2798 | n/a | 2/14/2022 | 0.164 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-7 | 0.2798 | n/a | 2/8/2022 | 0.0872J | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-9V | 0.2798 | n/a | 2/21/2022 | 0.177 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| pH (SU) | GS-AP-MW-12 | 7.76 | 5.02 | 2/28/2022 | 8.12 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-12V | 7.76 | 5.02 | 2/23/2022 | 7.73 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15 | 7.76 | 5.02 | 2/16/2022 | 11.57 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15V | 7.76 | 5.02 | 2/16/2022 | 8.65 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-16D | 7.76 | 5.02 | 2/15/2022 | 7.48 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-17 | 7.76 | 5.02 | 2/14/2022 | 8.32 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-19 | 7.76 | 5.02 | 2/22/2022 | 7.71 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-2 | 7.76 | 5.02 | 2/22/2022 | 9.42 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-21 | 7.76 | 5.02 | 2/8/2022 | 10.26 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-23H | 7.76 | 5.02 | 2/14/2022 | 5.8 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-3 | 7.76 | 5.02 | 2/16/2022 | 7.78 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-6D | 7.76 | 5.02 | 2/14/2022 | 7.43 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-6 | 7.76 | 5.02 | 2/14/2022 | 6.99 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-7 | 7.76 | 5.02 | 2/8/2022 | 7.71 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-9V | 7.76 | 5.02 | 2/21/2022 | 7 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-12 | 15.2 | n/a | 2/28/2022 | 17.9 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-12V | 15.2 | n/a | 2/23/2022 | 0.741J | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-15 | 15.2 | n/a | 2/16/2022 | 7.37 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-15V | 15.2 | n/a | 2/16/2022 | 224 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-16D | 15.2 | n/a | 2/15/2022 | 14.7 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-17 | 15.2 | n/a | 2/14/2022 | 14.4 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-19 | 15.2 | n/a | 2/22/2022 | 13.7 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-2 | 15.2 | n/a | 2/22/2022 | 17.1 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-21 | 15.2 | n/a | 2/8/2022 | 241 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-23H | 15.2 | n/a | 2/14/2022 | 356 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-3 | 15.2 | n/a | 2/16/2022 | 91.2 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6D | 15.2 | n/a | 2/14/2022 | 58.3 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6 | 15.2 | n/a | 2/14/2022 | 115 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-7 | 15.2 | n/a | 2/8/2022 | 137 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-9V | 15.2 | n/a | 2/21/2022 | 32.4 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-12 | 368 | n/a | 2/28/2022 | 195 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-12V | 368 | n/a | 2/23/2022 | 209 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15 | 368 | n/a | 2/16/2022 | 426 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15V | 368 | n/a | 2/16/2022 | 782 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-16D | 368 | n/a | 2/15/2022 | 214 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-17 | 368 | n/a | 2/14/2022 | 448 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-19 | 368 | n/a | 2/22/2022 | 304 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-2 | 368 | n/a | 2/22/2022 | 295 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-21 | 368 | n/a | 2/8/2022 | 570 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-23H | 368 | n/a | 2/14/2022 | 592 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-3 | 368 | n/a | 2/16/2022 | 307 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-6D | 368 | n/a | 2/14/2022 | 297 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-6 | 368 | n/a | 2/14/2022 | 299 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-7 | 368 | n/a | 2/8/2022 | 325 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-9V | 368 | n/a | 2/21/2022 | 299 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |

Appendix III Trend Tests - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:08 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------|------------------|---------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Boron (mg/L) | GS-AP-MW-6D | 0.04438 | 97 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-6 | -0.0634 | -94 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-7 | 0.04679 | 96 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-19 | 2.493 | 77 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6D | 1.303 | 93 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-21 | 3.259 | 103 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-6D | 1.242 | 119 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-7 | 0.6767 | 140 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-8 (bg) | 0.1896 | 85 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-13 (bg) | 0.02914 | 48 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-2 | -0.1524 | -136 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-12 | 0.1096 | 92 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-15 | 0.3442 | 91 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-2 | 0.04403 | 87 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-12 | 3.424 | 75 | 68 | Yes | 18 | 5.556 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-21 | 47.59 | 139 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-6 | -27.41 | -80 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-17 | 24.46 | 78 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-21 | 63.17 | 105 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Tests - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:08 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|------------------------|-------------------------|----------------|-------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Boron (mg/L) | GS-AP-MW-13 (bg) | 0 | 0 | 38 | No | 12 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-17V (bg) | -0.0054 | -7 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-2 | 0.004414 | 21 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-21 | 0.002318 | 39 | 63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-3 | -0.1153 | NaN | NaN | No | 3 | 0 | n/a | n/a | NaN | NP |
| Boron (mg/L) | GS-AP-MW-6D | 0.04438 | 97 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-6 | -0.0634 | -94 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-7 | 0.04679 | 96 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-8 (bg) | 0 | 17 | 68 | No | 18 | 94.44 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-13 (bg) | -2.607 | -32 | -38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-17V (bg) | 0.5737 | 5 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-19 | 2.493 | 77 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-23H | -1.659 | -5 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6D | 1.303 | 93 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6 | -2.413 | -35 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-8 (bg) | -0.6456 | -57 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-13 (bg) | 0.1178 | 10 | 38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-15 | -0.1972 | -23 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-15V | 8.363 | 2 | 12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-17 | 0.5267 | 32 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-17V (bg) | -0.1796 | -7 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-19 | -0.2607 | -59 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-2 | 0.03568 | 8 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-21 | 3.259 | 103 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-23H | 0.1193 | 3 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-3 | -3.409 | NaN | NaN | No | 3 | 0 | n/a | n/a | NaN | NP |
| Chloride (mg/L) | GS-AP-MW-6D | 1.242 | 119 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-6 | -0.8866 | -54 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-7 | 0.6767 | 140 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-8 (bg) | 0.1896 | 85 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-9V | 7.435 | 8 | 12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-13 (bg) | 0.02914 | 48 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-15 | -0.02521 | -35 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-17V (bg) | 0.001162 | 1 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-2 | -0.1524 | -136 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-8 (bg) | 0.003661 | 34 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-12 | 0.1096 | 92 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-13 (bg) | -0.05825 | -34 | -43 | No | 13 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-15 | 0.3442 | 91 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-15V | -1.24 | -10 | -12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-17 | -0.004866 | -19 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-17V (bg) | -0.09188 | -12 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-2 | 0.04403 | 87 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-21 | 0.1186 | 47 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-3 | 0.07019 | NaN | NaN | No | 3 | 0 | n/a | n/a | NaN | NP |
| pH (SU) | GS-AP-MW-8 (bg) | -0.04138 | -73 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-12 | 3.424 | 75 | 68 | Yes | 18 | 5.556 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-13 (bg) | 0.01849 | 11 | 38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-15V | -25.4 | -4 | -12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-17V (bg) | -1.441 | -13 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-2 | 3.194 | 28 | 74 | No | 19 | 10.53 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-21 | 47.59 | 139 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-23H | -5.343 | -5 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-3 | -66.98 | NaN | NaN | No | 3 | 0 | n/a | n/a | NaN | NP |
| Sulfate (mg/L) | GS-AP-MW-6D | 1.138 | 29 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Tests - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:08 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------------|--------------------|---------------|------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Sulfate (mg/L) | GS-AP-MW-6 | -27.41 | -80 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-7 | -1.448 | -30 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-8 (bg) | 0.1821 | 34 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-9V | 7.525 | 8 | 12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-13 (bg) | -7.182 | -29 | -38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-15 | 33.37 | 49 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-15V | -97.73 | -5 | -12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-17 | 24.46 | 78 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-17V (bg) | 0 | 0 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-21 | 63.17 | 105 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-23H | 8.221 | 1 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-8 (bg) | -3.157 | -39 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |

| GORGAS ASH POND GWPS | | | |
|-----------------------------|--------------|-------------------|-------------|
| Analyte | Units | Background | GWPS |
| Antimony | mg/L | 0.00115 | 0.006 |
| Arsenic | mg/L | 0.005 | 0.01 |
| Barium | mg/L | 0.353 | 2 |
| Beryllium | mg/L | 0.00102 | 0.004 |
| Cadmium | mg/L | 0.0002 | 0.005 |
| Chromium | mg/L | 0.01 | 0.1 |
| Cobalt | mg/L | 0.00362 | 0.006 |
| Combined Radium-226/228 | pCi/L | 1.25 | 5 |
| Fluoride | mg/L | 0.278 | 4 |
| Lead | mg/L | 0.00189 | 0.015 |
| Lithium | mg/L | 0.0809 | 0.0809 |
| Mercury | mg/L | 0.0005 | 0.002 |
| Molybdenum | mg/L | 0.00906 | 0.1 |
| Selenium | mg/L | 0.00102 | 0.05 |
| Thallium | mg/L | 0.0002 | 0.002 |

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

Confidence Intervals - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:49 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------|-------------|------------|------------|------------|------|---|---------|-----------|------|---------|-----------|-------|----------------|
| Arsenic (mg/L) | GS-AP-MW-6D | 0.1124 | 0.08272 | 0.01 | Yes | 8 | 0.09756 | 0.01401 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-7 | 0.285 | 0.207 | 0.01 | Yes | 8 | 0.2578 | 0.03296 | 0 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | GS-AP-MW-15 | 0.5085 | 0.2515 | 0.0809 | Yes | 8 | 0.38 | 0.1212 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21 | 0.3295 | 0.1496 | 0.0809 | Yes | 8 | 0.2396 | 0.08486 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-6D | 0.3185 | 0.256 | 0.0809 | Yes | 8 | 0.2873 | 0.02945 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-7 | 0.1954 | 0.1463 | 0.0809 | Yes | 8 | 0.1709 | 0.02316 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-7 | 0.2157 | 0.1766 | 0.1 | Yes | 8 | 0.1961 | 0.01844 | 0 | None | No | 0.01 | Param. |

Confidence Intervals - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:49 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|--------------------|---------------|----------------|-------------|------------|----------|----------------|----------------|----------|--------------|-----------|--------------|-----------------------|
| Antimony (mg/L) | GS-AP-MW-12 | 0.003069 | 0.000862 | 0.006 | No | 8 | 0.001717 | 0.001143 | 37.5 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-12V | 0.001982 | 0.00043 | 0.006 | No | 7 | 0.001206 | 0.0006533 | 0 | None | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-15 | 0.0009145 | 0.0006855 | 0.006 | No | 8 | 0.0008825 | 0.0001459 | 37.5 | Kaplan-Meier | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-15V | 0.003521 | 0.0005073 | 0.006 | No | 5 | 0.002014 | 0.0008991 | 0 | None | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-21V | 0.00102 | 0.000661 | 0.006 | No | 5 | 0.0009104 | 0.0001617 | 60 | None | No | 0.031 | NP (NDs) |
| Antimony (mg/L) | GS-AP-MW-6D | 0.00102 | 0.000828 | 0.006 | No | 8 | 0.000996 | 0.00006788 | 87.5 | None | No | 0.004 | NP (NDs) |
| Antimony (mg/L) | GS-AP-MW-6 | 0.001131 | 0.0005876 | 0.006 | No | 8 | 0.0009397 | 0.0002121 | 50 | Kaplan-Meier | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-7 | 0.00105 | 0.00102 | 0.006 | No | 8 | 0.001024 | 0.00001061 | 87.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-12 | 0.01573 | 0.002991 | 0.01 | No | 8 | 0.009359 | 0.006008 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-12V | 0.002474 | 0.000923 | 0.01 | No | 7 | 0.001699 | 0.0006529 | 14.29 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-15 | 0.01829 | 0.007251 | 0.01 | No | 8 | 0.01277 | 0.005205 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-15V | 0.01901 | 0.006112 | 0.01 | No | 5 | 0.01256 | 0.003848 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-16D | 0.0025 | 0.0001 | 0.01 | No | 8 | 0.001651 | 0.001177 | 62.5 | None | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-17 | 0.00557 | 0.001415 | 0.01 | No | 8 | 0.003493 | 0.00196 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-19 | 0.003218 | 0.001387 | 0.01 | No | 8 | 0.002303 | 0.0008633 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-21 | 0.0025 | 0.00046 | 0.01 | No | 8 | 0.001765 | 0.001015 | 62.5 | None | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-21V | 0.0169 | -0.001169 | 0.01 | No | 5 | 0.007864 | 0.005391 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-6D | 0.1124 | 0.08272 | 0.01 | Yes | 8 | 0.09756 | 0.01401 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-6 | 0.01251 | 0.005911 | 0.01 | No | 8 | 0.009144 | 0.003389 | 0 | None | sqrt(x) | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-7 | 0.285 | 0.207 | 0.01 | Yes | 8 | 0.2578 | 0.03296 | 0 | None | No | 0.004 | NP (normality) |
| Arsenic (mg/L) | GS-AP-MW-9V | 0.0003914 | 0.00008019 | 0.01 | No | 5 | 0.001126 | 0.001256 | 40 | Kaplan-Meier | x^(1/3) | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-12 | 0.2016 | 0.1671 | 2 | No | 8 | 0.1848 | 0.01767 | 0 | None | x*5 | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-12V | 1.532 | 1.074 | 2 | No | 7 | 1.303 | 0.1925 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-15 | 0.271 | 0.0913 | 2 | No | 8 | 0.1599 | 0.06805 | 0 | None | No | 0.004 | NP (normality) |
| Barium (mg/L) | GS-AP-MW-15V | 0.2141 | 0.1455 | 2 | No | 5 | 0.1798 | 0.0205 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-16D | 0.3469 | 0.3211 | 2 | No | 8 | 0.334 | 0.01213 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-17 | 0.135 | 0.0883 | 2 | No | 8 | 0.1038 | 0.01811 | 0 | None | No | 0.004 | NP (normality) |
| Barium (mg/L) | GS-AP-MW-19 | 0.3562 | 0.3238 | 2 | No | 8 | 0.34 | 0.01532 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-2 | 0.06558 | 0.05192 | 2 | No | 8 | 0.05875 | 0.006444 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-21 | 0.1544 | 0.09569 | 2 | No | 8 | 0.125 | 0.02769 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-21V | 0.07222 | 0.0261 | 2 | No | 5 | 0.04916 | 0.01376 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-6D | 0.8806 | 0.4254 | 2 | No | 8 | 0.653 | 0.2147 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-6 | 0.1208 | 0.07153 | 2 | No | 8 | 0.09615 | 0.02323 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-7 | 0.1429 | 0.06267 | 2 | No | 8 | 0.1028 | 0.03783 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-9V | 0.2167 | 0.1425 | 2 | No | 5 | 0.1796 | 0.02213 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | GS-AP-MW-16D | 0.00109 | 0.00102 | 0.004 | No | 8 | 0.001029 | 0.00002475 | 87.5 | None | No | 0.004 | NP (NDs) |
| Beryllium (mg/L) | GS-AP-MW-2 | 0.00102 | 0.00102 | 0.004 | No | 8 | 0.00102 | 0 | 100 | None | No | 0.004 | NP (NDs) |
| Beryllium (mg/L) | GS-AP-MW-6 | 0.00102 | 0.000794 | 0.004 | No | 8 | 0.0009917 | 0.0000799 | 87.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-12 | 0.00102 | 0.00031 | 0.1 | No | 8 | 0.0009312 | 0.000251 | 87.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-12V | 0.005688 | -0.00009377 | 0.1 | No | 7 | 0.002797 | 0.002434 | 14.29 | None | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-15 | 0.00102 | 0.00048 | 0.1 | No | 8 | 0.0008875 | 0.0002034 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-15V | 0.007384 | 0.00002359 | 0.1 | No | 5 | 0.00242 | 0.002755 | 0 | None | sqrt(x) | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-16D | 0.00107 | 0.00025 | 0.1 | No | 8 | 0.0008875 | 0.0002855 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-17 | 0.00255 | 0.00034 | 0.1 | No | 8 | 0.00105 | 0.0006728 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-19 | 0.00102 | 0.000258 | 0.1 | No | 8 | 0.0008372 | 0.0003388 | 75 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-2 | 0.00102 | 0.00044 | 0.1 | No | 8 | 0.0008619 | 0.000248 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-21 | 0.00102 | 0.0004 | 0.1 | No | 8 | 0.0008281 | 0.0002801 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-21V | 0.001222 | -0.0001834 | 0.1 | No | 5 | 0.0008016 | 0.0004688 | 40 | Kaplan-Meier | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-6D | 0.00102 | 0.00024 | 0.1 | No | 8 | 0.0007305 | 0.0003996 | 62.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-6 | 0.00102 | 0.00024 | 0.1 | No | 8 | 0.0007335 | 0.0003955 | 62.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-7 | 0.005355 | 0.0005285 | 0.1 | No | 8 | 0.003316 | 0.002375 | 25 | Kaplan-Meier | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-9V | 0.00102 | 0.000228 | 0.1 | No | 5 | 0.0007156 | 0.0004174 | 60 | Kaplan-Meier | No | 0.031 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-12V | 0.001363 | 0.00008055 | 0.006 | No | 7 | 0.0007457 | 0.0009803 | 42.86 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Cobalt (mg/L) | GS-AP-MW-15 | 0.0002 | 0.00009 | 0.006 | No | 8 | 0.0001862 | 0.00003889 | 87.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-16D | 0.000252 | 0.00009 | 0.006 | No | 8 | 0.0001927 | 0.00004533 | 75 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-17 | 0.0002 | 0.000102 | 0.006 | No | 8 | 0.0001877 | 0.00003465 | 87.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-6 | 0.000663 | 0.0002 | 0.006 | No | 8 | 0.0003691 | 0.0002335 | 62.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-7 | 0.00381 | 0.0009129 | 0.006 | No | 8 | 0.001821 | 0.001613 | 25 | Kaplan-Meier | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-12 | 0.9125 | 0.3477 | 5 | No | 8 | 0.6301 | 0.2664 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-12V | 1.41 | 0.5664 | 5 | No | 7 | 0.9881 | 0.355 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-15 | 0.9239 | 0.1663 | 5 | No | 8 | 0.5451 | 0.3574 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-15V | 1.165 | 0.2678 | 5 | No | 5 | 0.7162 | 0.2676 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-16D | 0.8132 | 0.08525 | 5 | No | 8 | 0.4493 | 0.3434 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-17 | 1.471 | 0.03889 | 5 | No | 8 | 0.6978 | 0.815 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-19 | 1.573 | 0.4756 | 5 | No | 8 | 1.024 | 0.5175 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-2 | 1.484 | 0.1457 | 5 | No | 8 | 0.8573 | 1.286 | 0 | None | ln(x) | 0.01 | Param. |

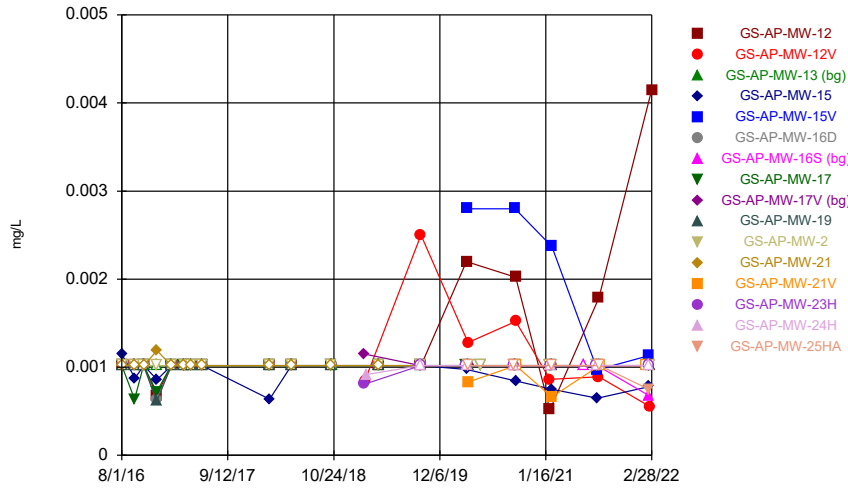
Confidence Intervals - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:49 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|--------------------|---------------|---------------|---------------|------------|----------|---------------|----------------|----------|--------------|--------------------|-------------|----------------|
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-21 | 0.8491 | 0.3681 | 5 | No | 8 | 0.6086 | 0.2269 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-21V | 1.09 | 0.3748 | 5 | No | 5 | 0.7322 | 0.2133 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-6D | 0.992 | 0.412 | 5 | No | 8 | 0.702 | 0.2736 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-6 | 1.119 | 0.3466 | 5 | No | 8 | 0.7328 | 0.3643 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-7 | 1.404 | 0.3467 | 5 | No | 8 | 0.8751 | 0.4985 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-9V | 1.045 | 0.036 | 5 | No | 5 | 0.375 | 0.3359 | 0 | None | x ^(1/3) | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-12 | 0.23 | 0.12 | 4 | No | 8 | 0.1516 | 0.0404 | 0 | None | No | 0.004 | NP (normality) |
| Fluoride (mg/L) | GS-AP-MW-12V | 0.1977 | 0.1537 | 4 | No | 7 | 0.1757 | 0.01854 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.7064 | 0.4223 | 4 | No | 8 | 0.5644 | 0.134 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-15V | 0.396 | 0.176 | 4 | No | 5 | 0.286 | 0.06565 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-16D | 0.1477 | 0.1035 | 4 | No | 8 | 0.1256 | 0.02084 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-17 | 0.3583 | 0.2372 | 4 | No | 8 | 0.2978 | 0.0571 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-19 | 0.3488 | 0.2697 | 4 | No | 8 | 0.3093 | 0.03731 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.9152 | 0.809 | 4 | No | 8 | 0.8621 | 0.05008 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-21 | 0.2566 | 0.1912 | 4 | No | 8 | 0.2239 | 0.03084 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-21V | 0.6664 | 0.3292 | 4 | No | 5 | 0.4978 | 0.1006 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-6D | 0.1527 | 0.118 | 4 | No | 8 | 0.1354 | 0.01639 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-6 | 0.2517 | 0.13 | 4 | No | 8 | 0.1909 | 0.05739 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-7 | 0.1228 | 0.0975 | 4 | No | 8 | 0.1102 | 0.01194 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-9V | 0.191 | 0.1638 | 4 | No | 5 | 0.1774 | 0.008142 | 0 | None | No | 0.01 | Param. |
| Lead (mg/L) | GS-AP-MW-12V | 0.001929 | 0.0001048 | 0.015 | No | 7 | 0.0009371 | 0.0009689 | 28.57 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Lead (mg/L) | GS-AP-MW-15 | 0.0002 | 0.00008 | 0.015 | No | 8 | 0.0001709 | 0.00005387 | 75 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-16D | 0.000873 | 0.00016 | 0.015 | No | 8 | 0.0002791 | 0.0002404 | 75 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-17 | 0.0002 | 0.000175 | 0.015 | No | 8 | 0.0001969 | 0.00008839 | 87.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-6 | 0.0002 | 0.00008 | 0.015 | No | 8 | 0.000185 | 0.00004243 | 87.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-7 | 0.003308 | 0.001125 | 0.015 | No | 8 | 0.001712 | 0.001335 | 25 | Kaplan-Meier | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-12 | 0.04049 | 0.0244 | 0.0809 | No | 8 | 0.0323 | 0.008869 | 0 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-12V | 0.05505 | 0.03098 | 0.0809 | No | 7 | 0.04301 | 0.01013 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-15 | 0.5085 | 0.2515 | 0.0809 | Yes | 8 | 0.38 | 0.1212 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-15V | 0.2077 | 0.0417 | 0.0809 | No | 5 | 0.1247 | 0.04952 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-16D | 0.03642 | 0.03288 | 0.0809 | No | 8 | 0.03465 | 0.001666 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-17 | 0.068 | 0.0572 | 0.0809 | No | 8 | 0.06111 | 0.004307 | 0 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | GS-AP-MW-19 | 0.04422 | 0.03123 | 0.0809 | No | 8 | 0.03773 | 0.006132 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-2 | 0.04552 | 0.03843 | 0.0809 | No | 8 | 0.04198 | 0.003343 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21 | 0.3295 | 0.1496 | 0.0809 | Yes | 8 | 0.2396 | 0.08486 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21V | 0.1765 | 0.03891 | 0.0809 | No | 5 | 0.1077 | 0.04105 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-6D | 0.3185 | 0.256 | 0.0809 | Yes | 8 | 0.2873 | 0.02945 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-6 | 0.06972 | 0.01818 | 0.0809 | No | 8 | 0.04395 | 0.02431 | 12.5 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-7 | 0.1954 | 0.1463 | 0.0809 | Yes | 8 | 0.1709 | 0.02316 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-9V | 0.03147 | 0.02869 | 0.0809 | No | 5 | 0.03008 | 0.0008319 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-12 | 0.00903 | 0.00444 | 0.1 | No | 8 | 0.005835 | 0.001704 | 37.5 | None | No | 0.004 | NP (normality) |
| Molybdenum (mg/L) | GS-AP-MW-12V | 0.00715 | 0.0006276 | 0.1 | No | 7 | 0.003889 | 0.002745 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-15 | 0.07362 | 0.03743 | 0.1 | No | 8 | 0.05553 | 0.01708 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-15V | 0.06049 | 0.01831 | 0.1 | No | 5 | 0.0394 | 0.01259 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-16D | 0.005 | 0.00014 | 0.1 | No | 8 | 0.003269 | 0.002394 | 62.5 | None | No | 0.004 | NP (NDs) |
| Molybdenum (mg/L) | GS-AP-MW-17 | 0.008695 | 0.002365 | 0.1 | No | 8 | 0.00553 | 0.002986 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-19 | 0.006817 | 0.00317 | 0.1 | No | 8 | 0.004994 | 0.001721 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-2 | 0.005472 | 0.001865 | 0.1 | No | 8 | 0.003616 | 0.001944 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-21 | 0.08602 | 0.02518 | 0.1 | No | 8 | 0.0556 | 0.0287 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-21V | 0.1464 | 0.03628 | 0.1 | No | 5 | 0.09132 | 0.03284 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-6D | 0.01081 | 0.006782 | 0.1 | No | 8 | 0.008795 | 0.001899 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-6 | 0.04298 | 0.004773 | 0.1 | No | 8 | 0.02388 | 0.01802 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-7 | 0.2157 | 0.1766 | 0.1 | Yes | 8 | 0.1961 | 0.01844 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-9V | 0.003353 | 0.0002661 | 0.1 | No | 5 | 0.003086 | 0.001921 | 40 | Kaplan-Meier | No | 0.01 | Param. |
| Selenium (mg/L) | GS-AP-MW-6 | 0.01 | 0.000794 | 0.05 | No | 8 | 0.00661 | 0.00468 | 62.5 | None | No | 0.004 | NP (NDs) |

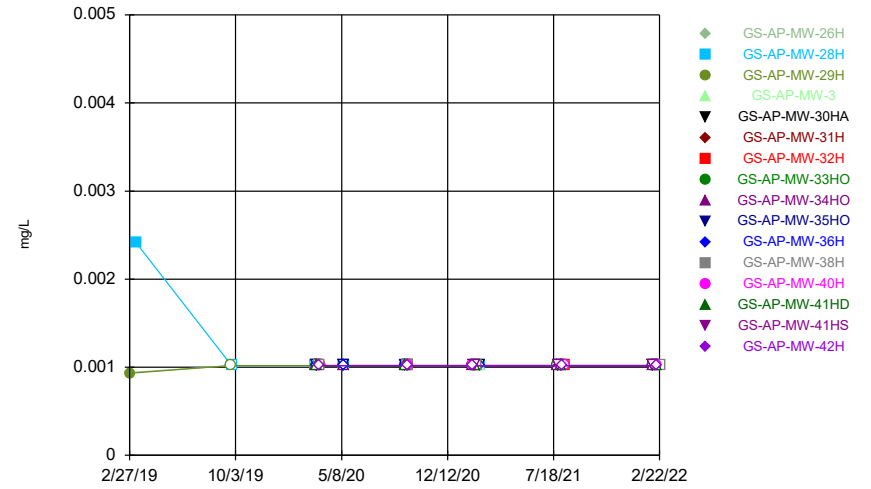
FIGURE A.

Time Series



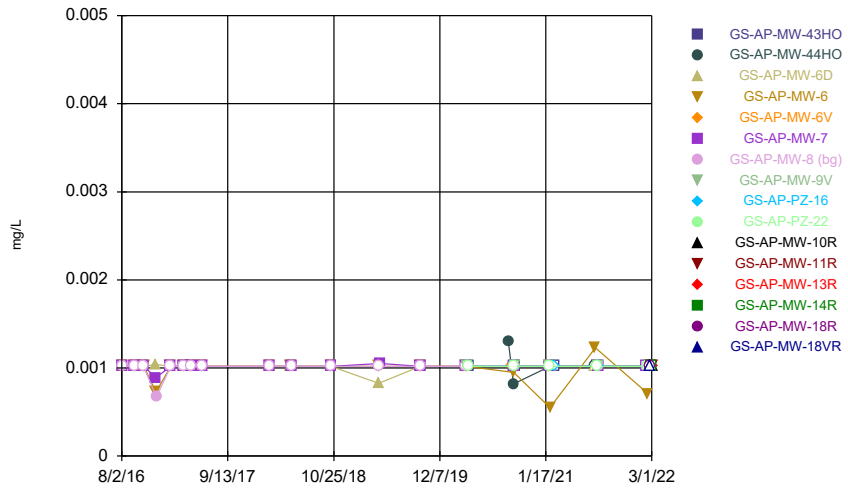
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Time Series



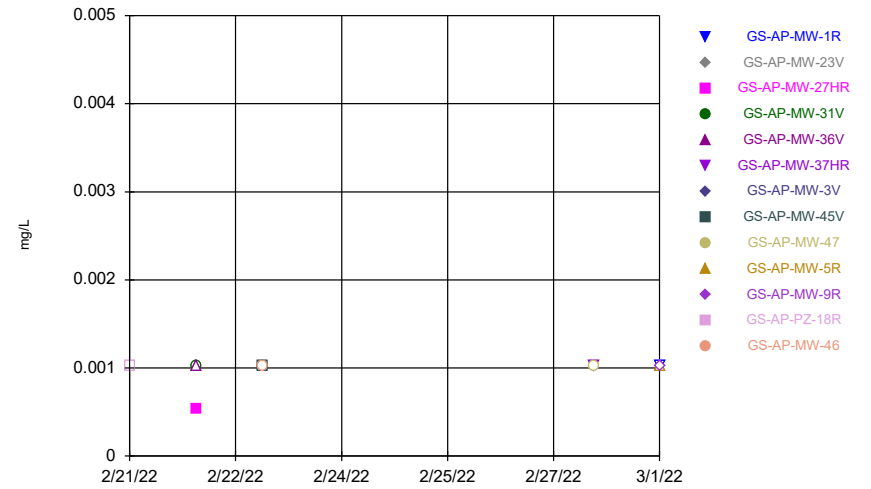
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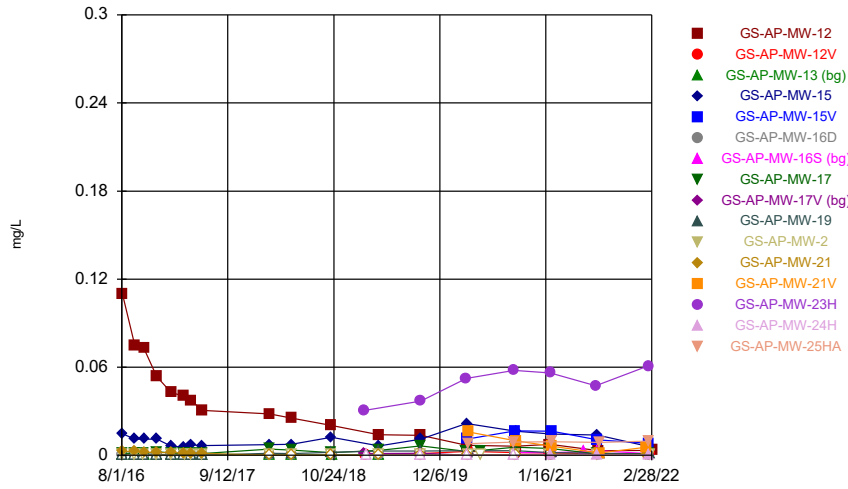
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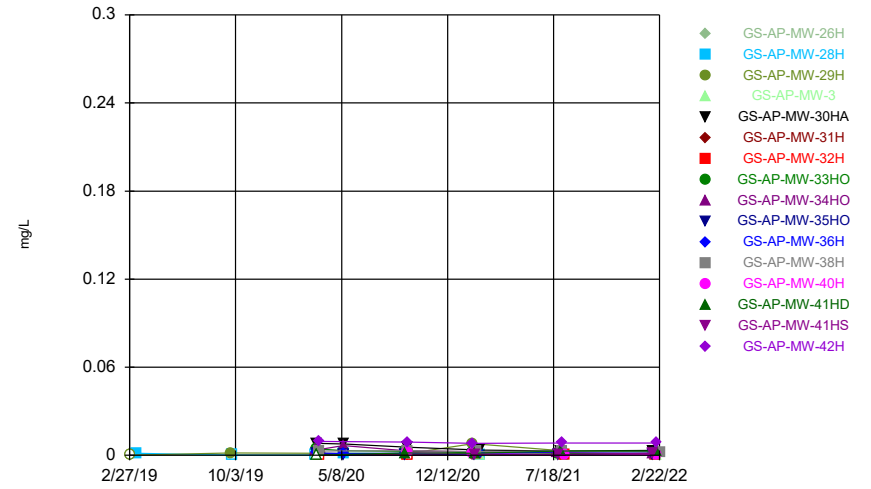
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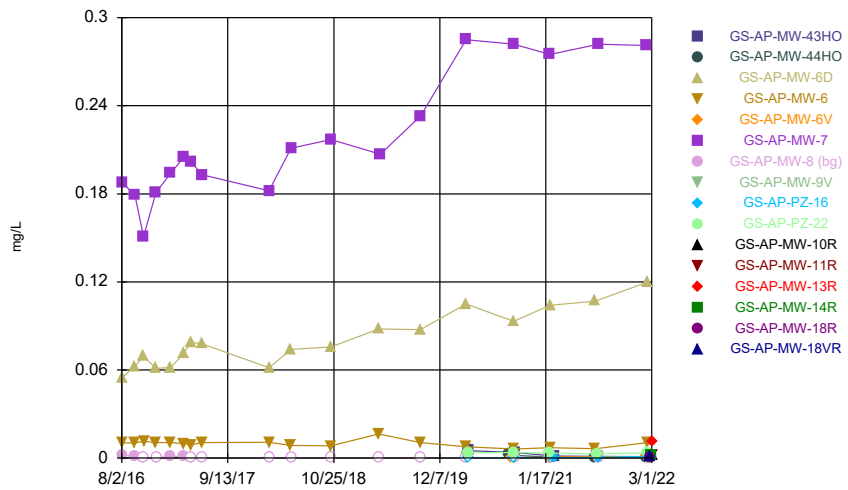
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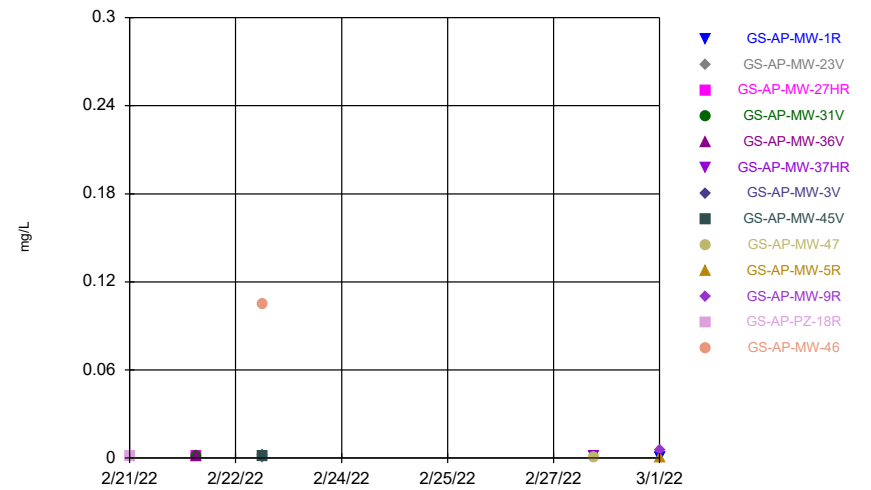
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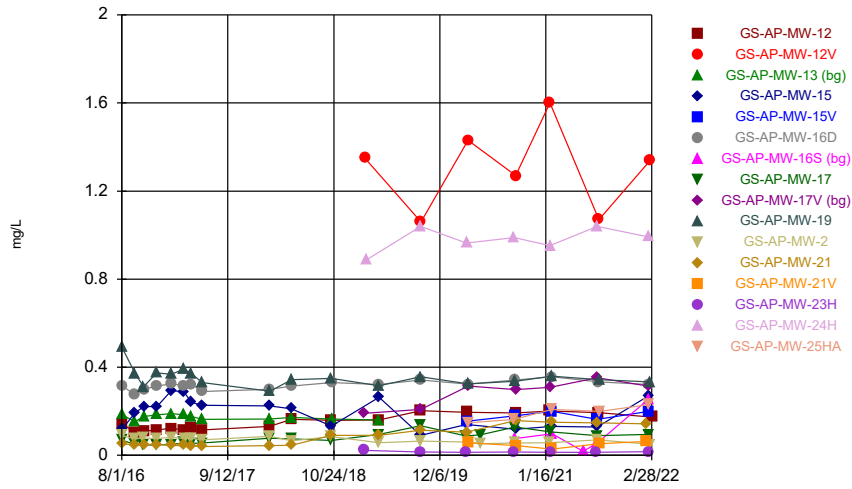
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Time Series



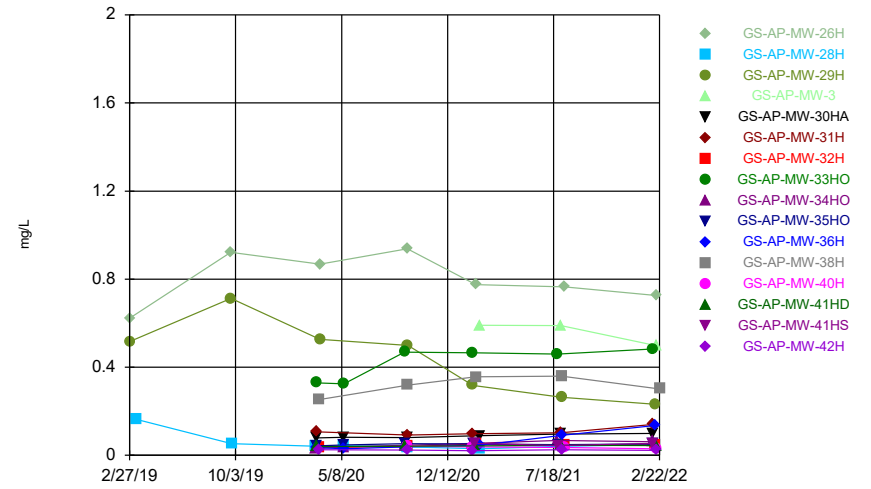
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Time Series



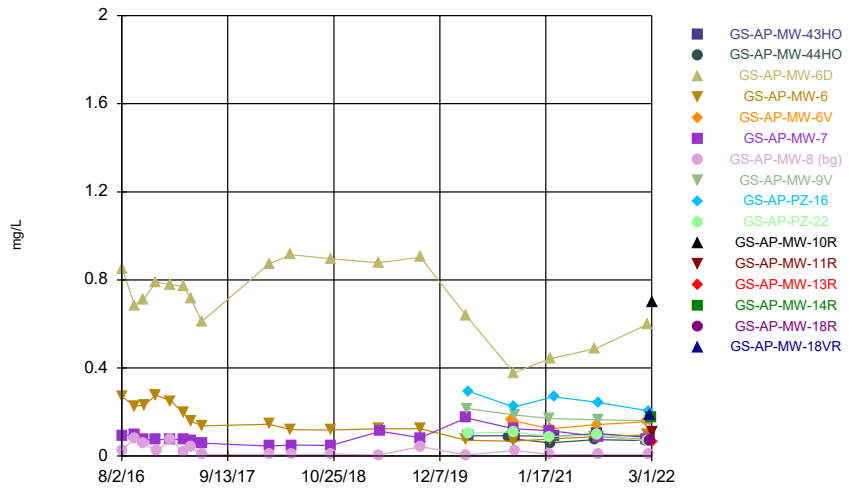
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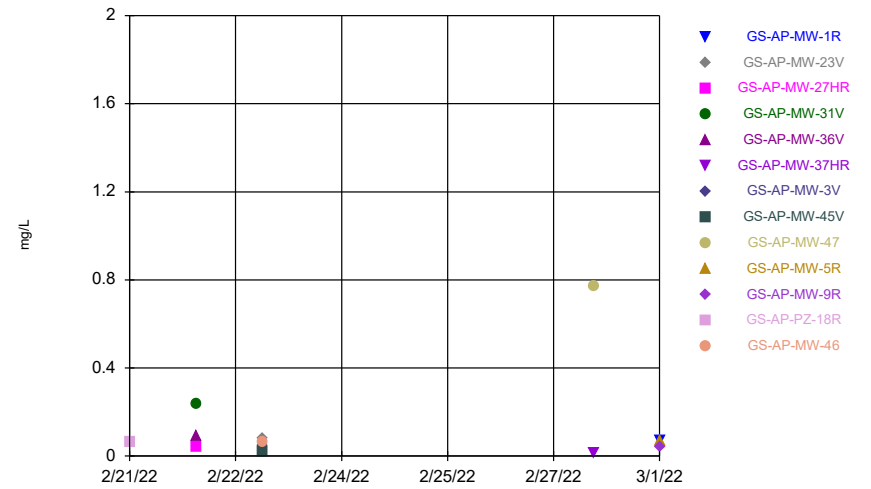
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Time Series



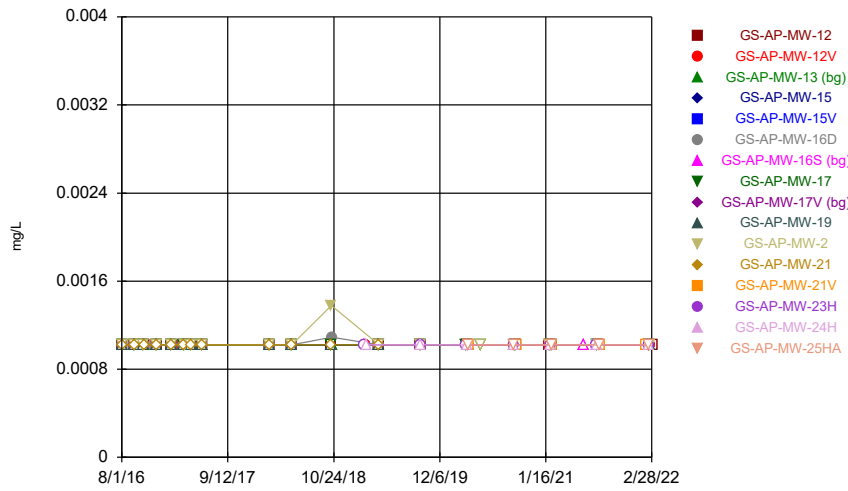
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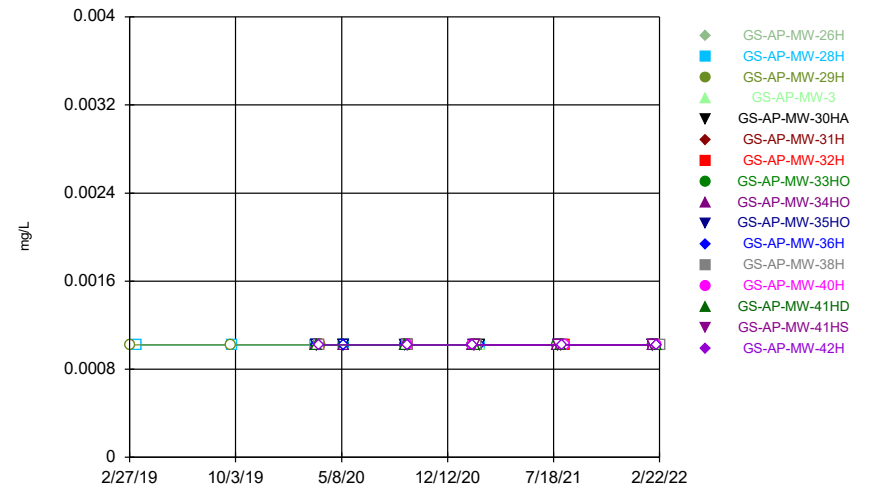
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Time Series



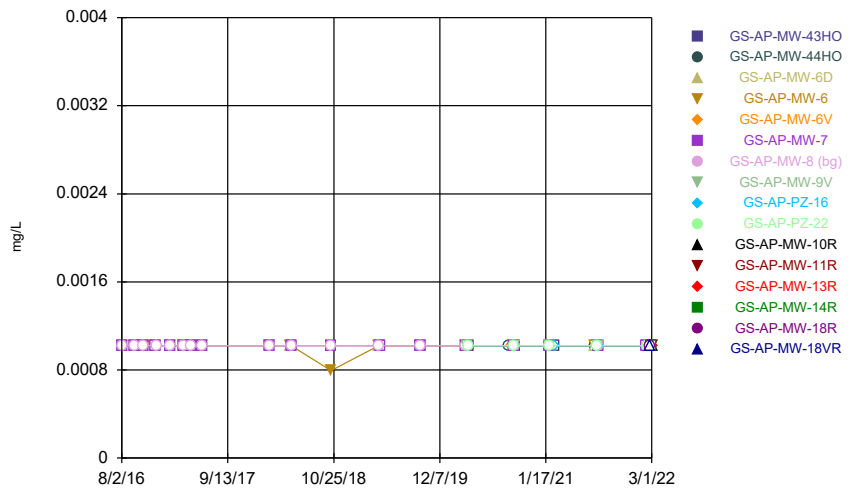
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Time Series



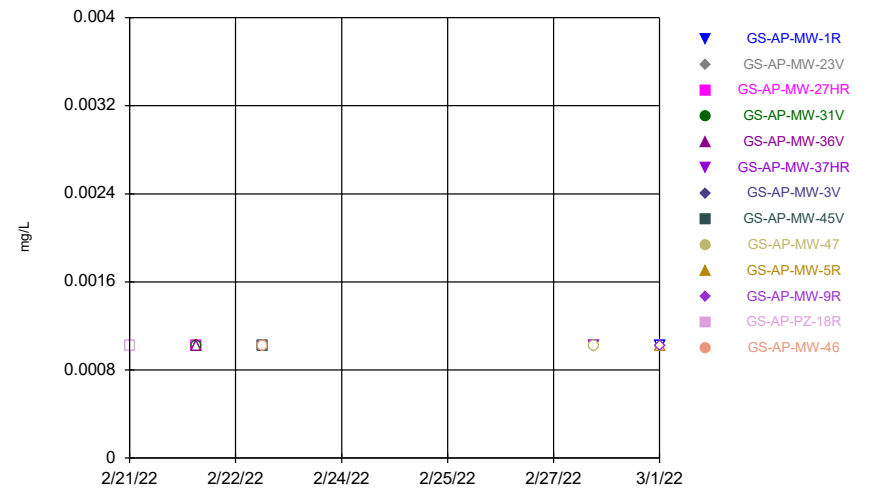
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Time Series



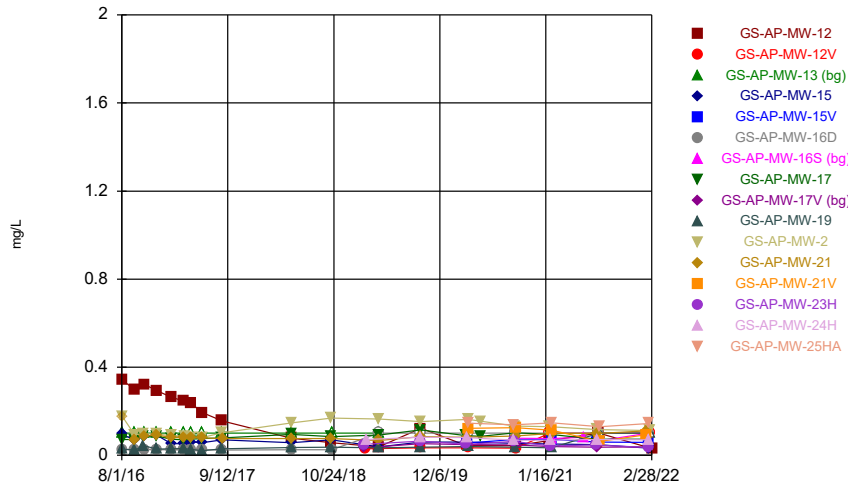
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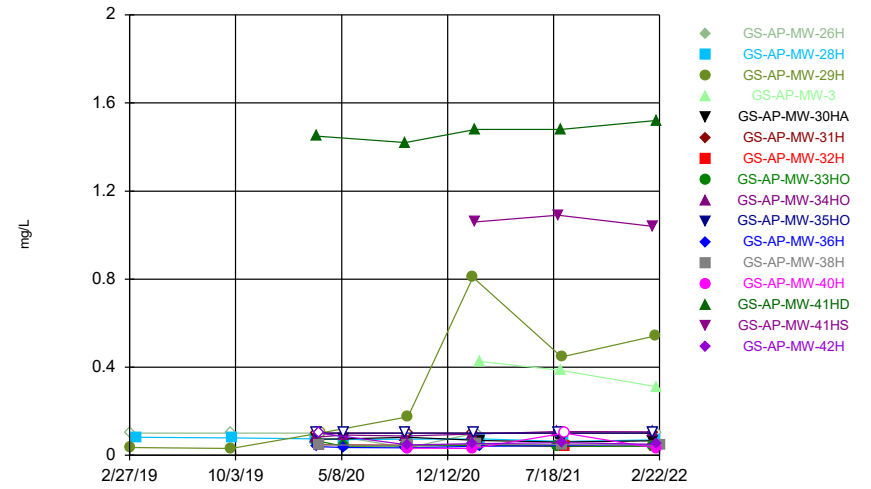
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Time Series



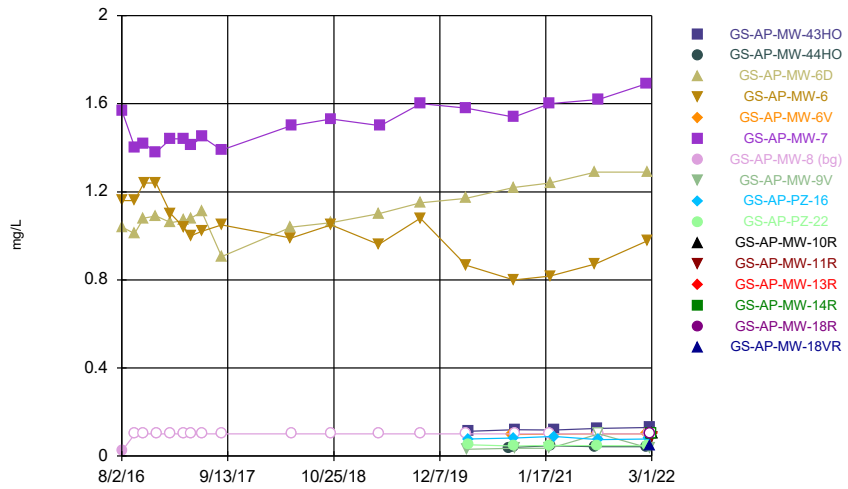
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Time Series



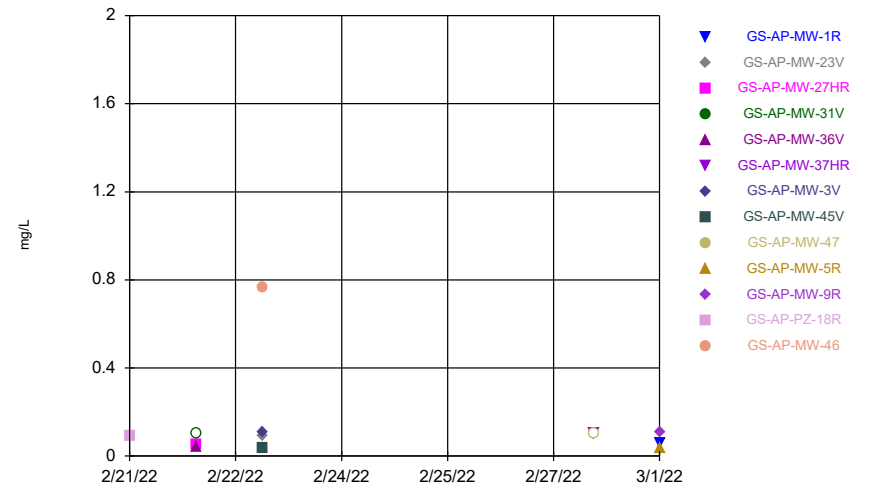
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Time Series



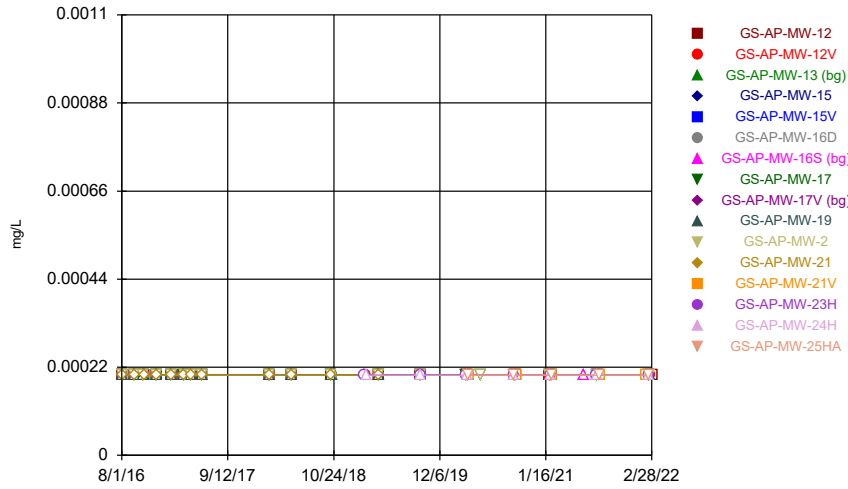
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Time Series



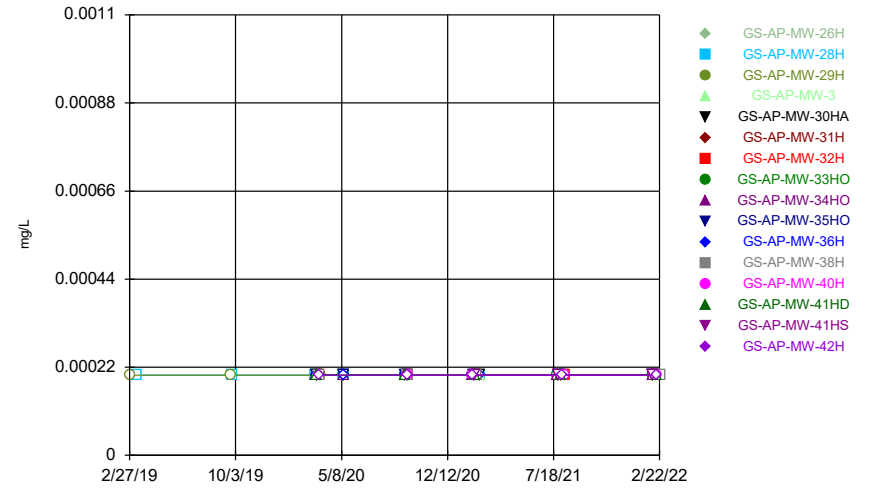
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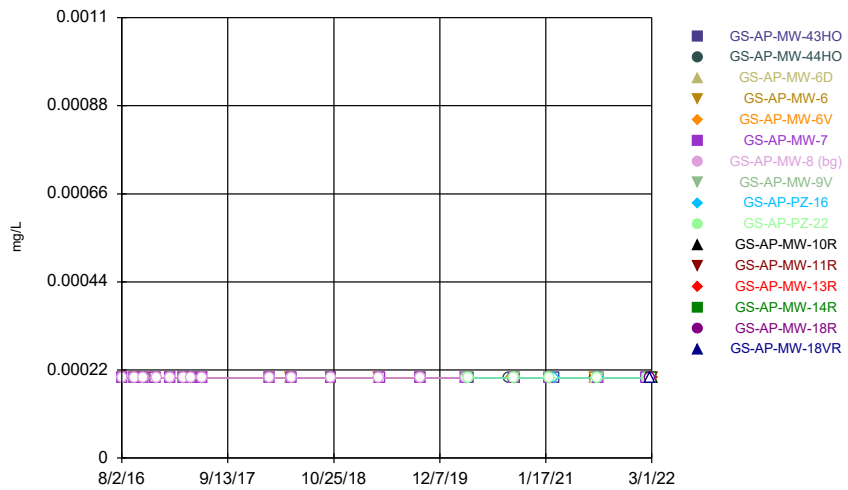
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Time Series



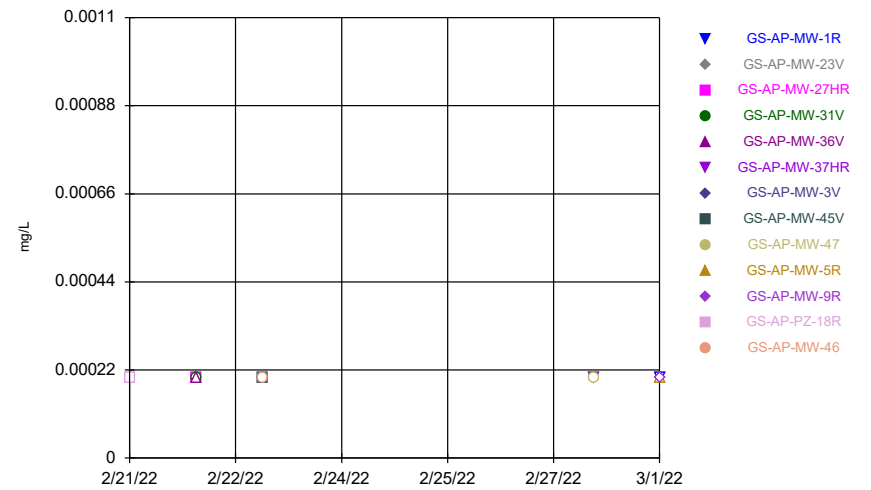
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Time Series



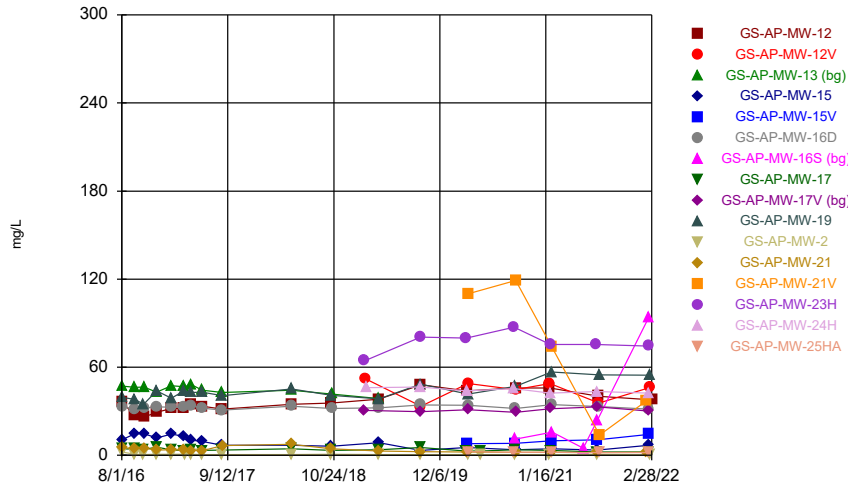
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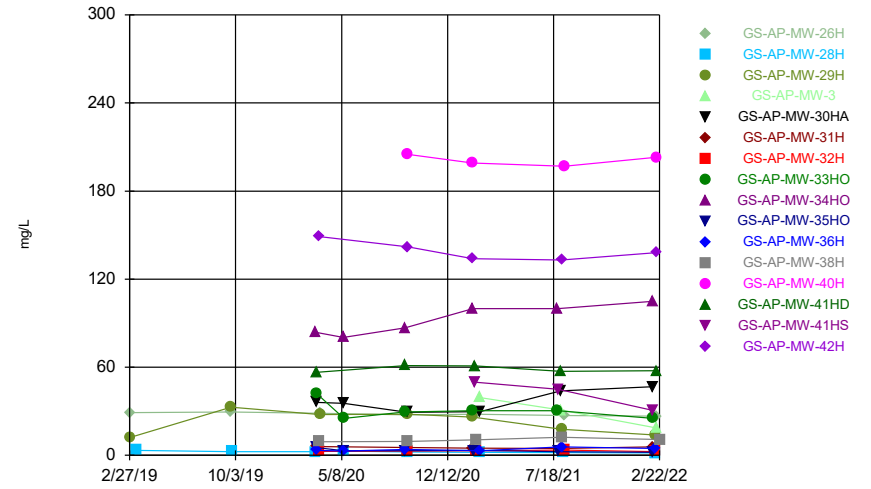
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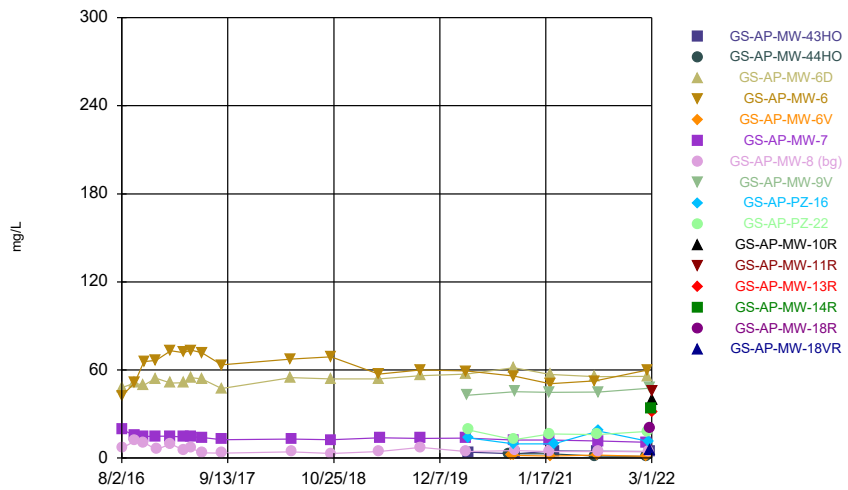
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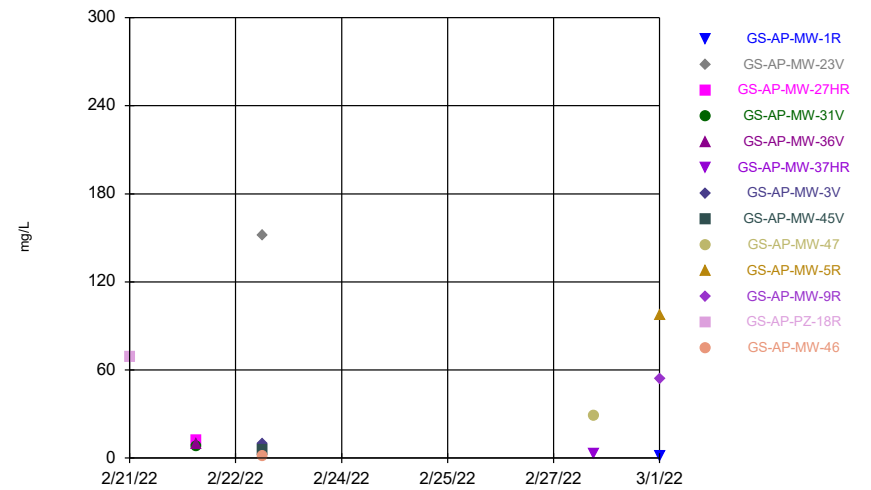
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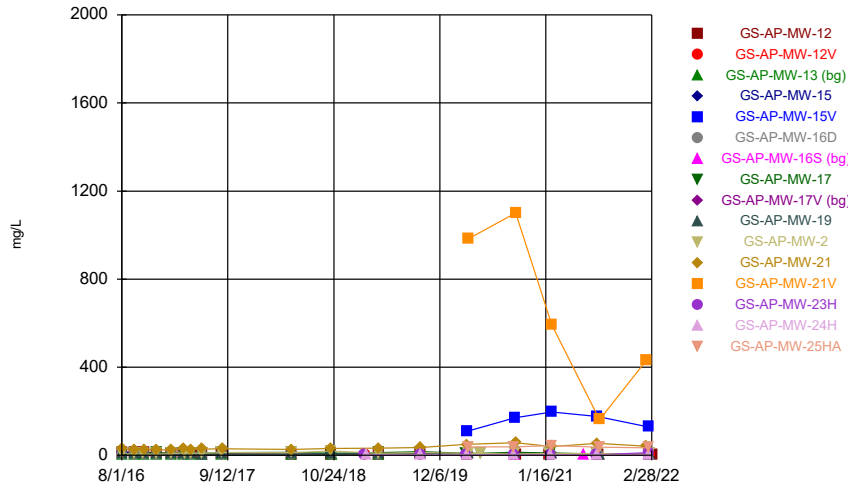
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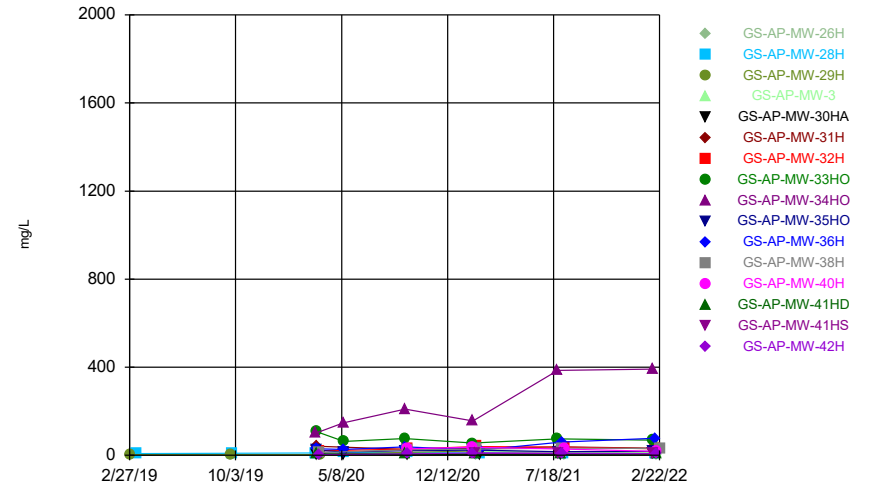
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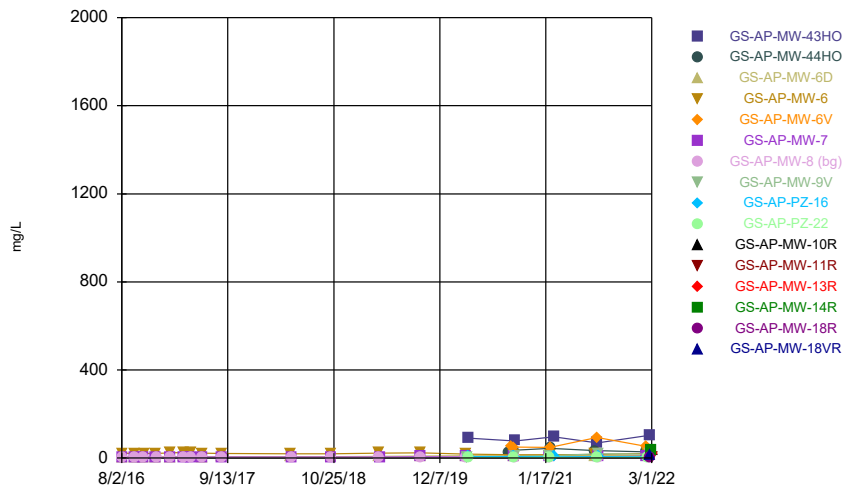
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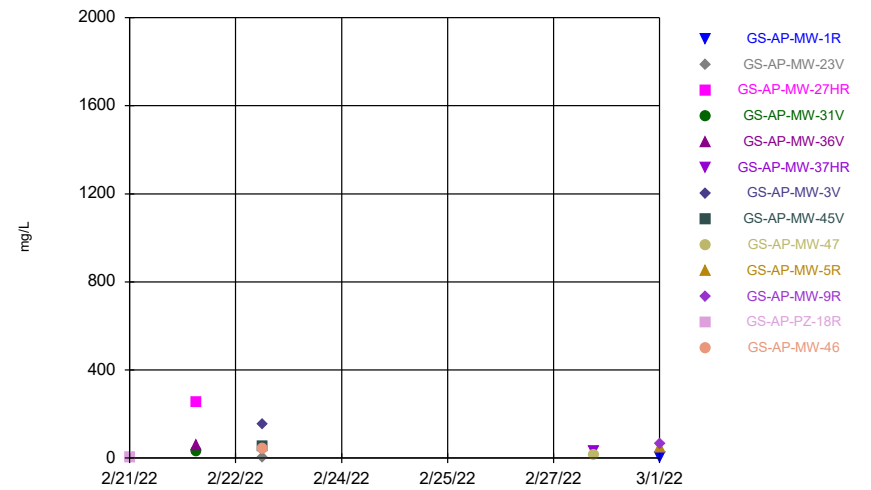
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Time Series



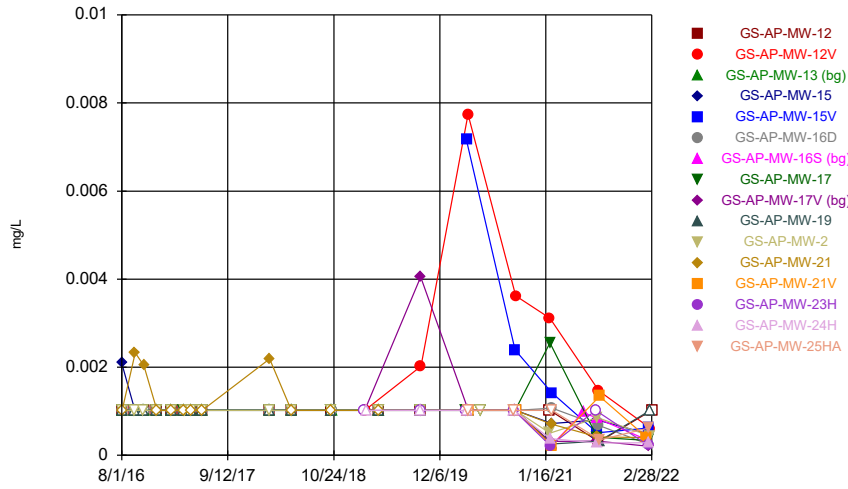
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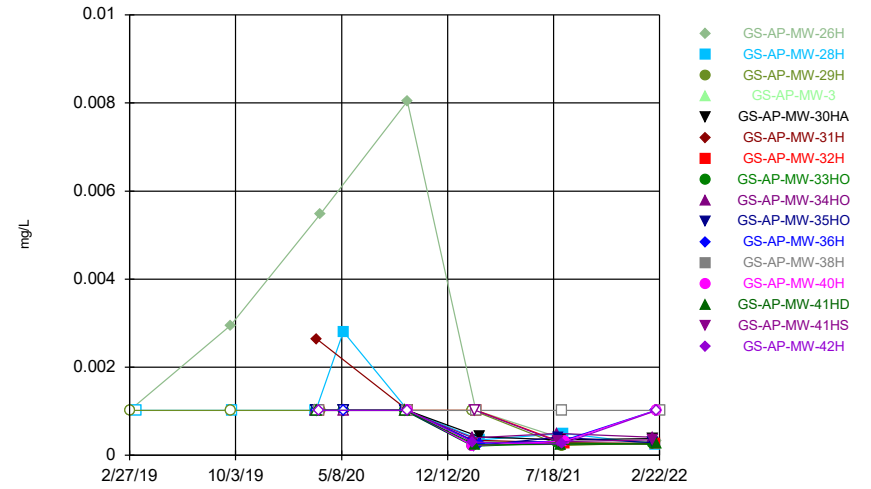
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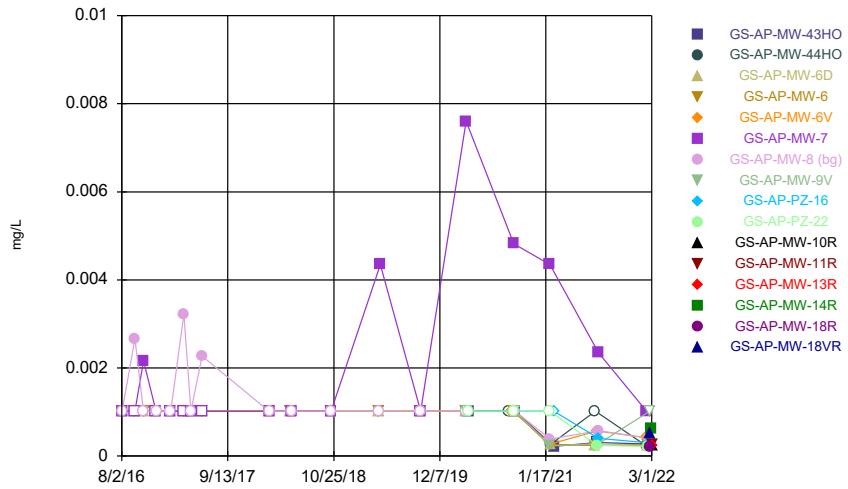
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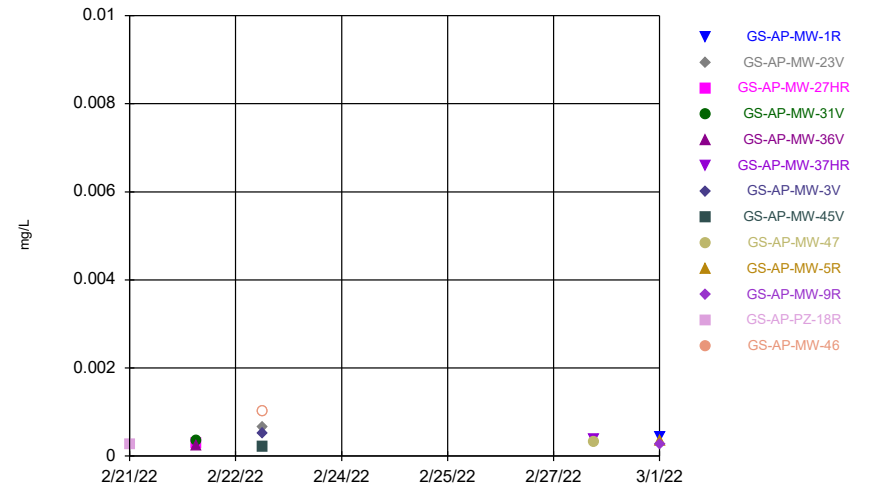
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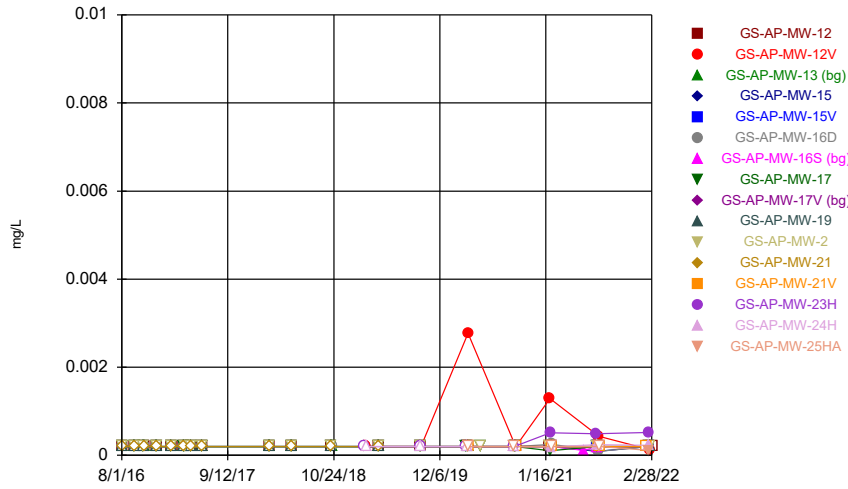
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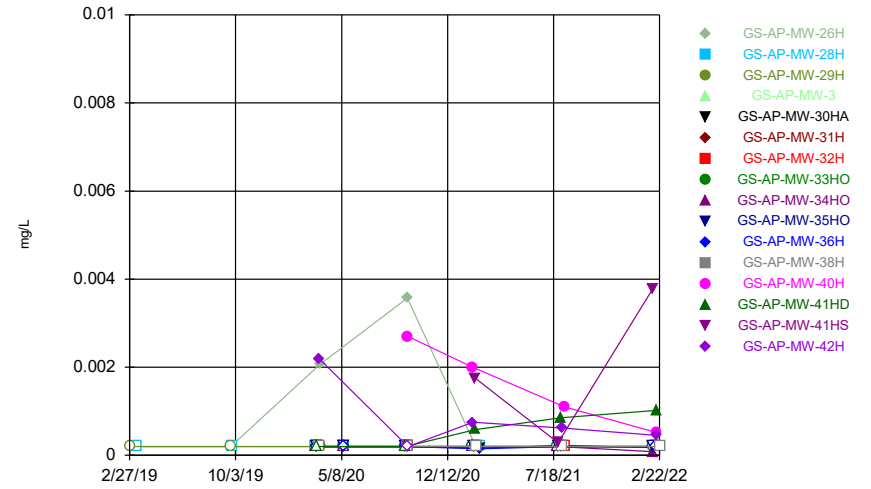
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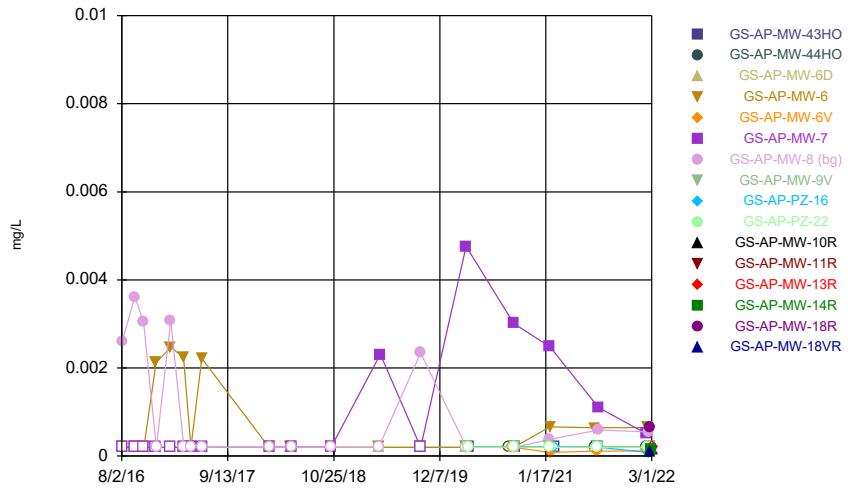
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Time Series



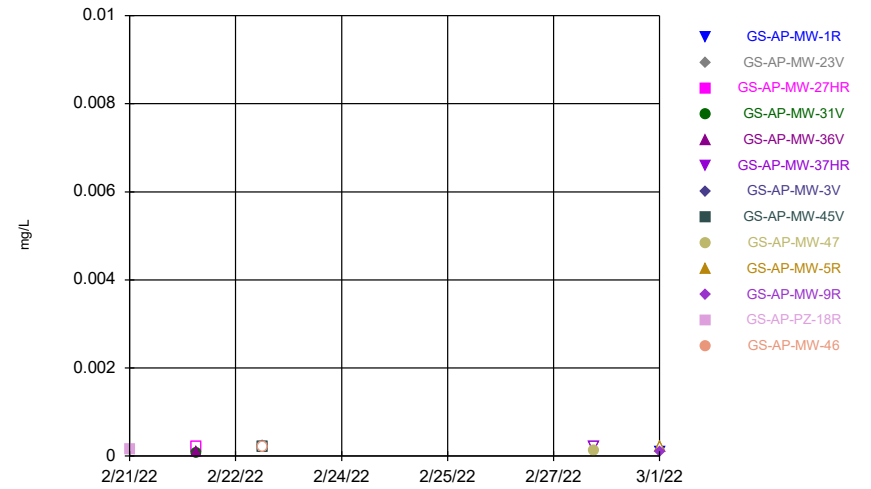
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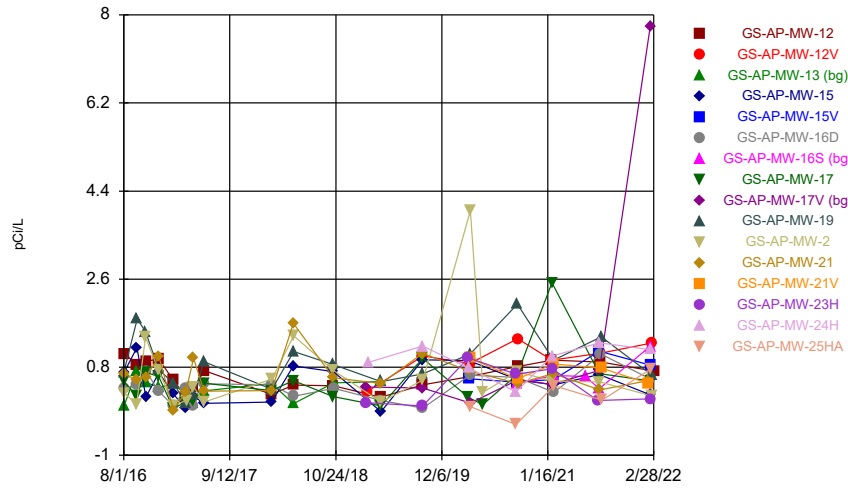
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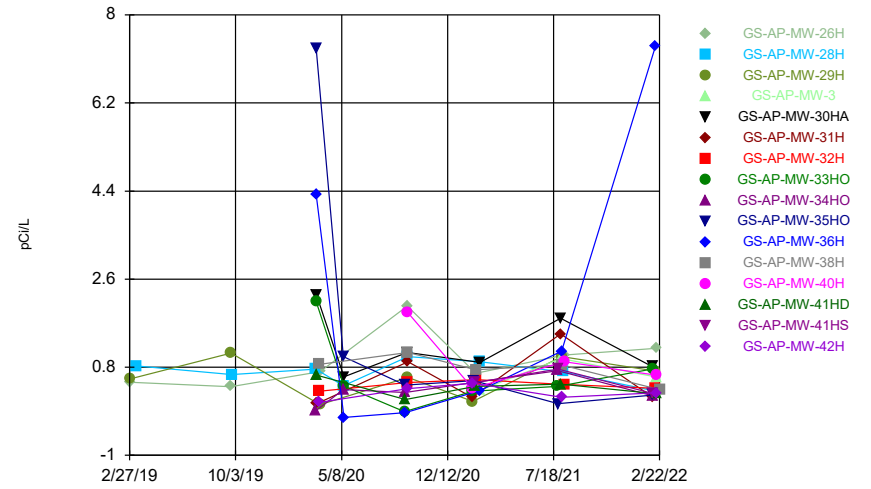
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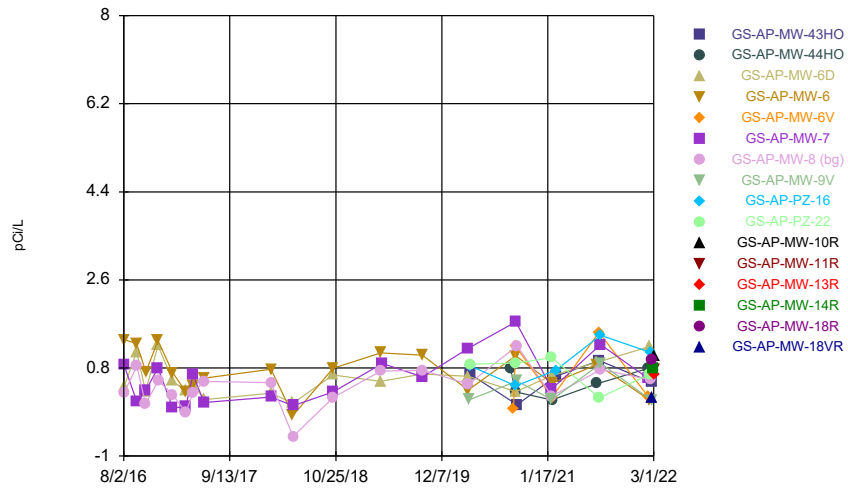
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



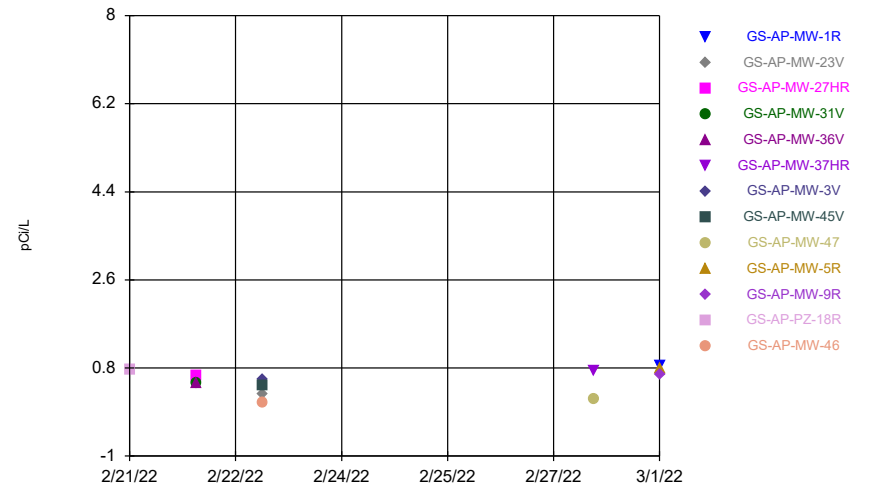
Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



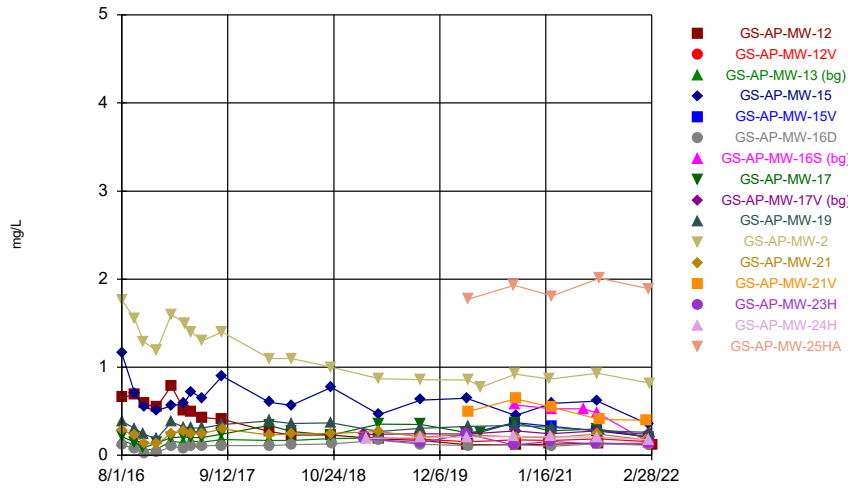
Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

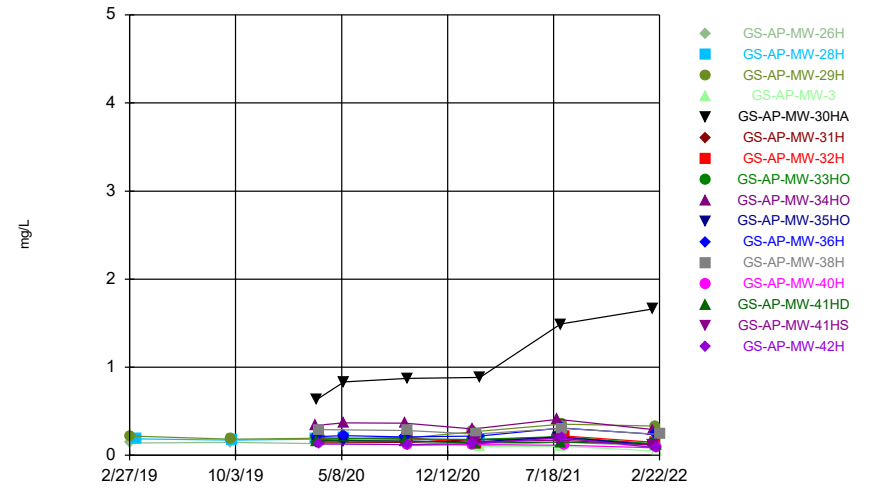
Time Series



Constituent: Fluoride Analysis Run 5/16/2022 2:06 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Hollow symbols indicate censored values.

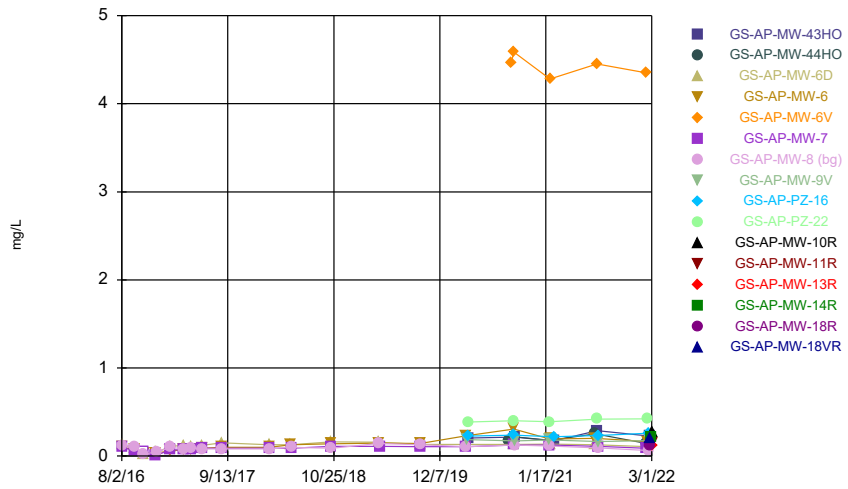
Time Series



Constituent: Fluoride Analysis Run 5/16/2022 2:06 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

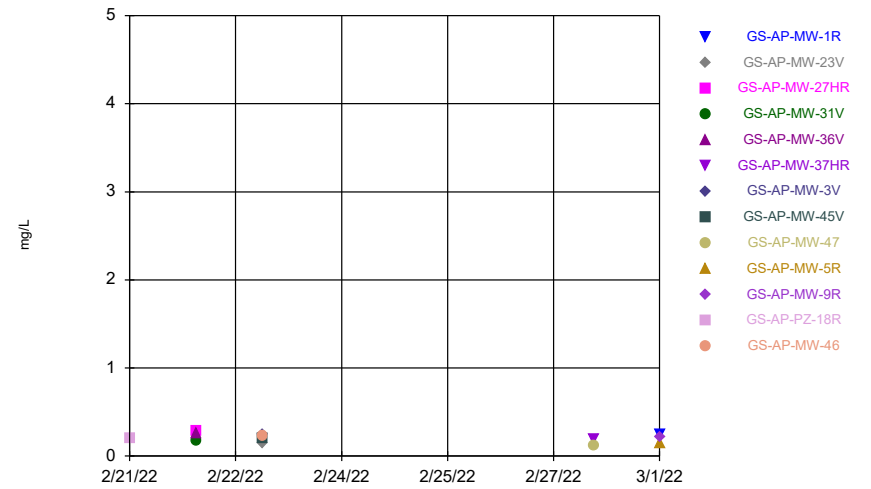
Hollow symbols indicate censored values.

Time Series



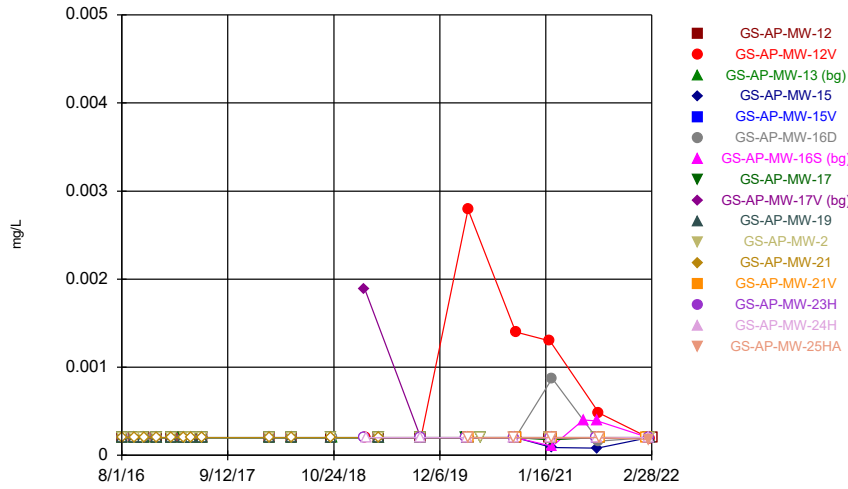
Constituent: Fluoride Analysis Run 5/16/2022 2:06 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



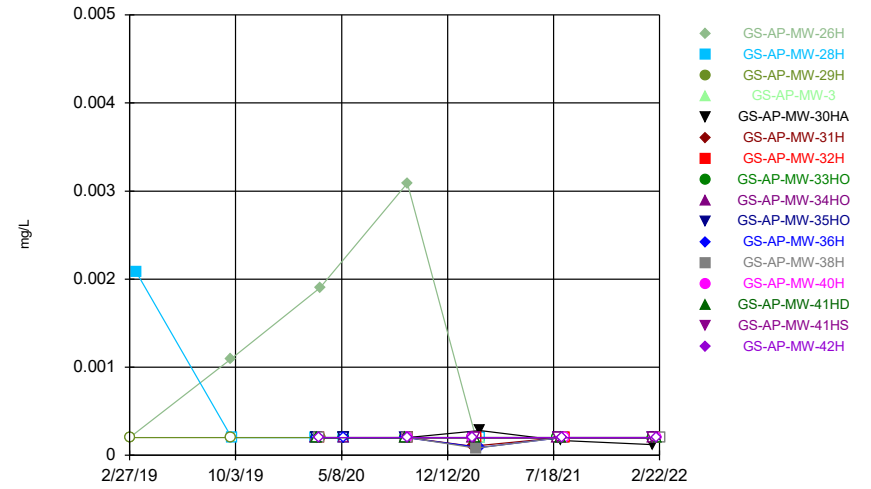
Constituent: Fluoride Analysis Run 5/16/2022 2:06 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



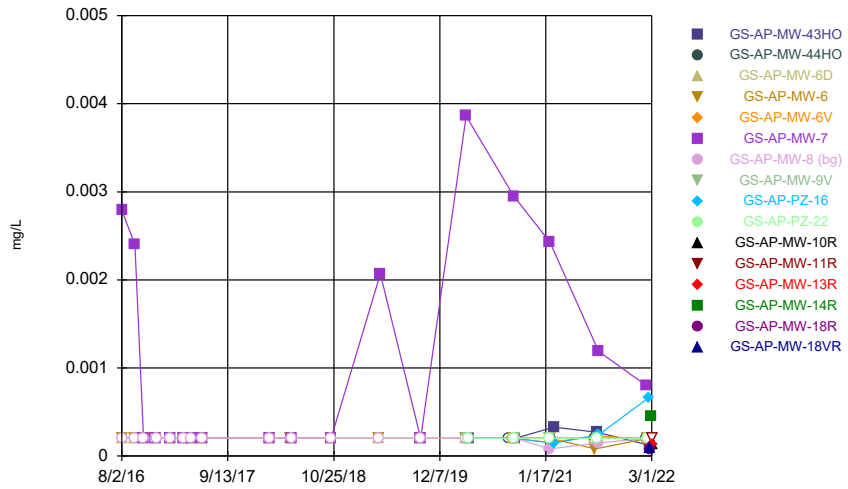
Constituent: Lead Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



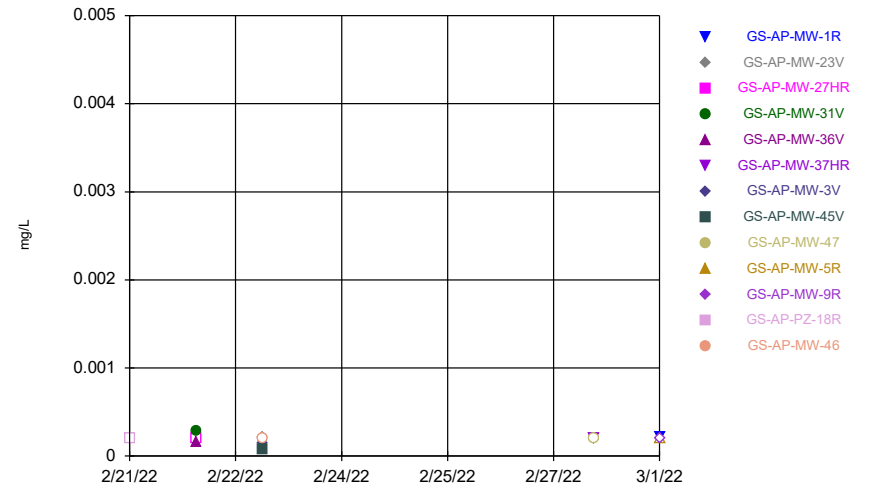
Constituent: Lead Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



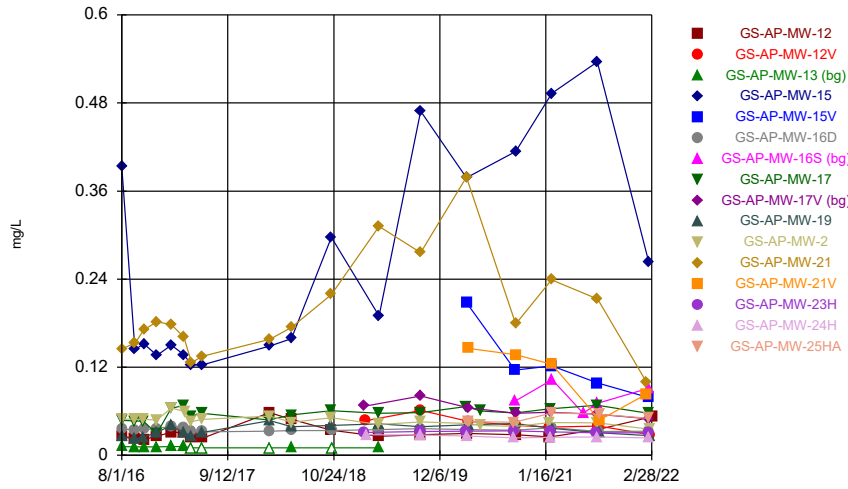
Constituent: Lead Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



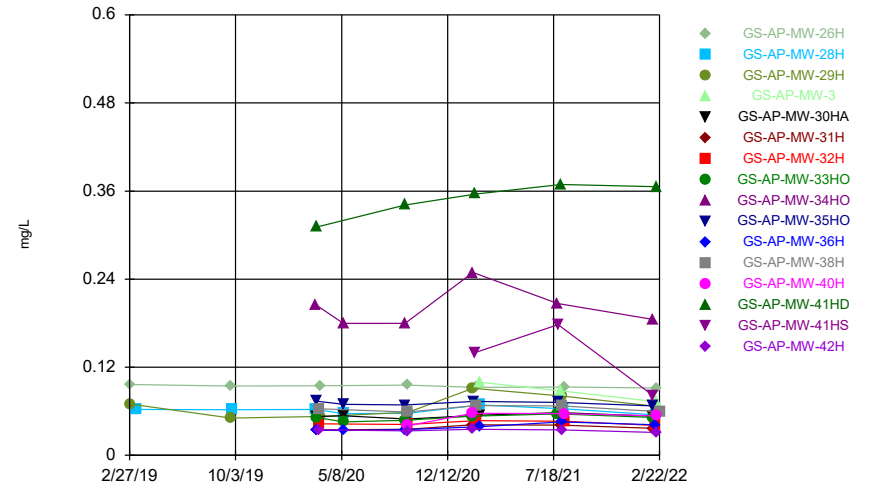
Constituent: Lead Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



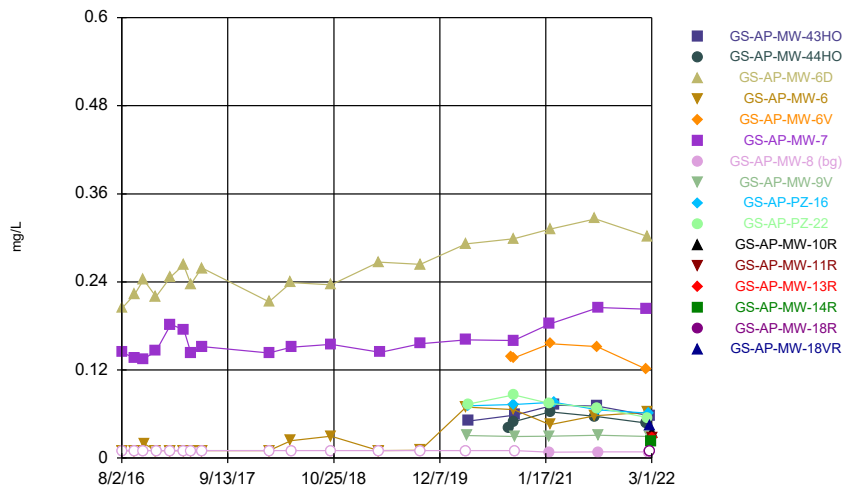
Constituent: Lithium Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



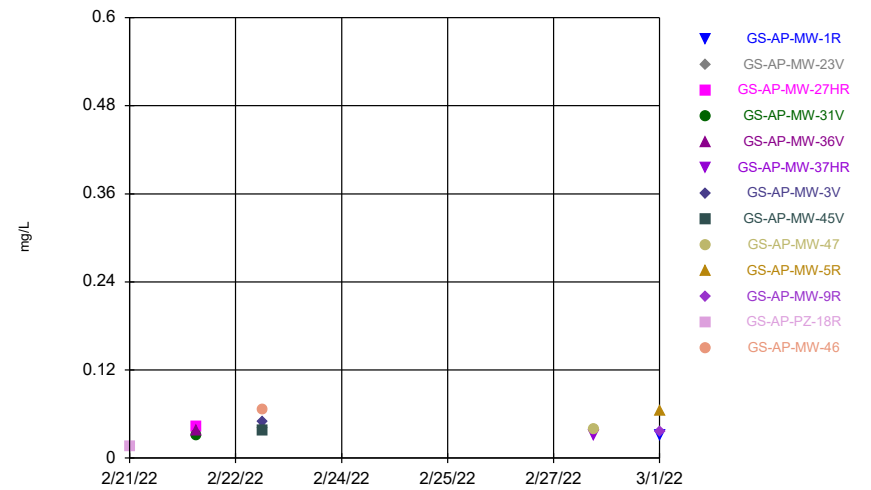
Constituent: Lithium Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



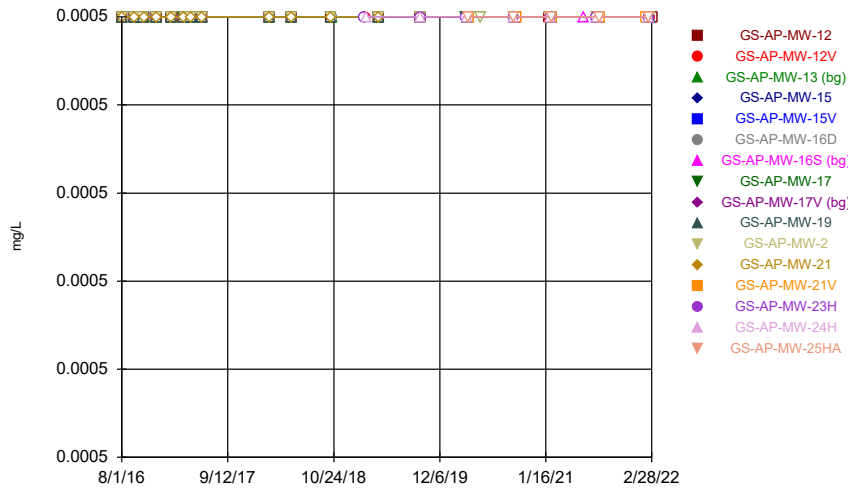
Constituent: Lithium Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



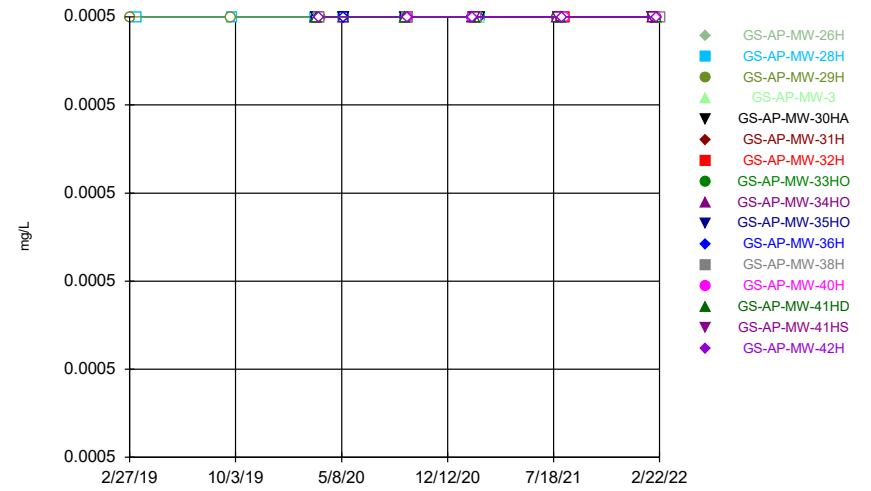
Constituent: Lithium Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



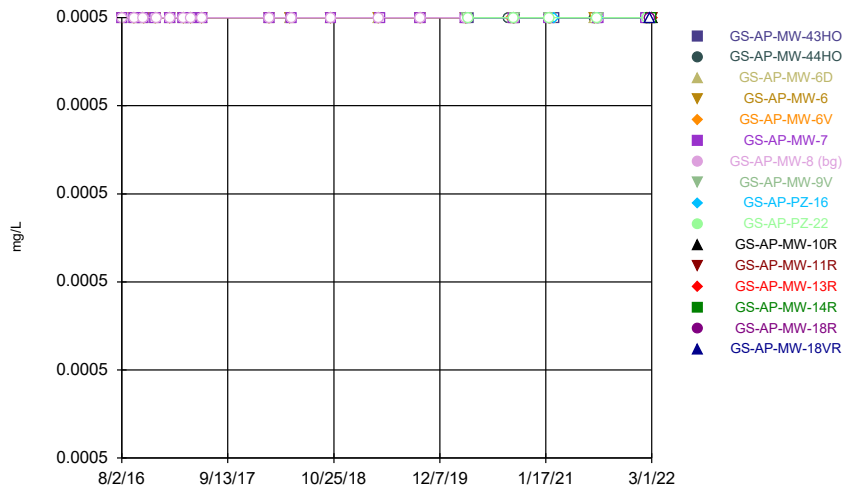
Constituent: Mercury Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



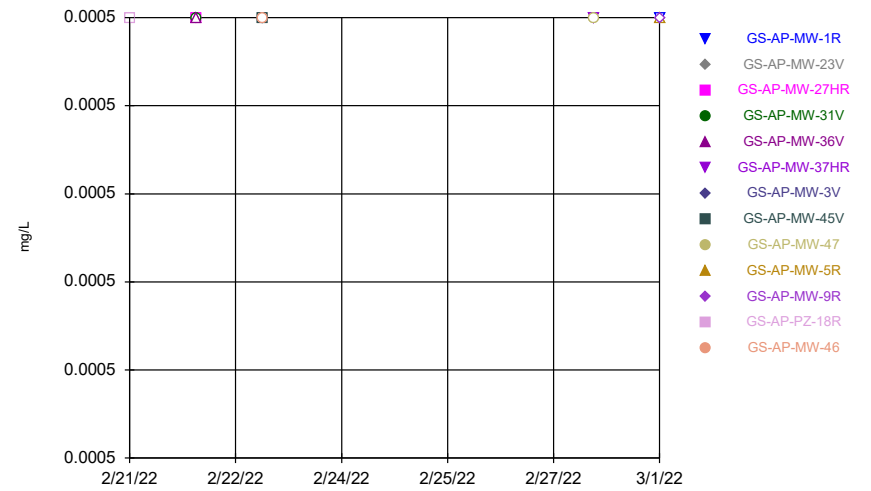
Constituent: Mercury Analysis Run 5/16/2022 2:06 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



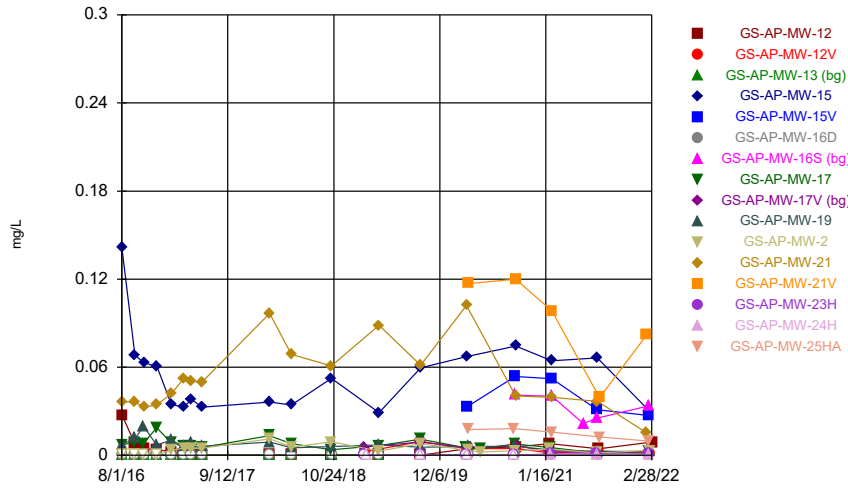
Constituent: Mercury Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



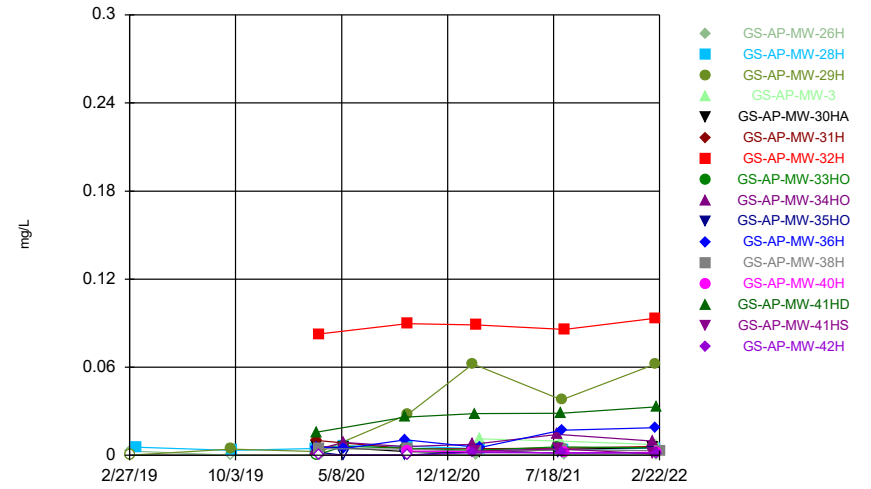
Constituent: Mercury Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



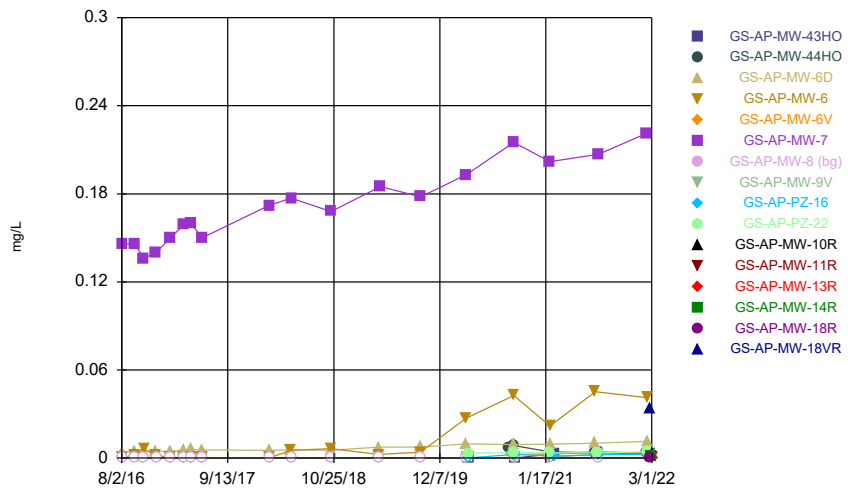
Constituent: Molybdenum Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



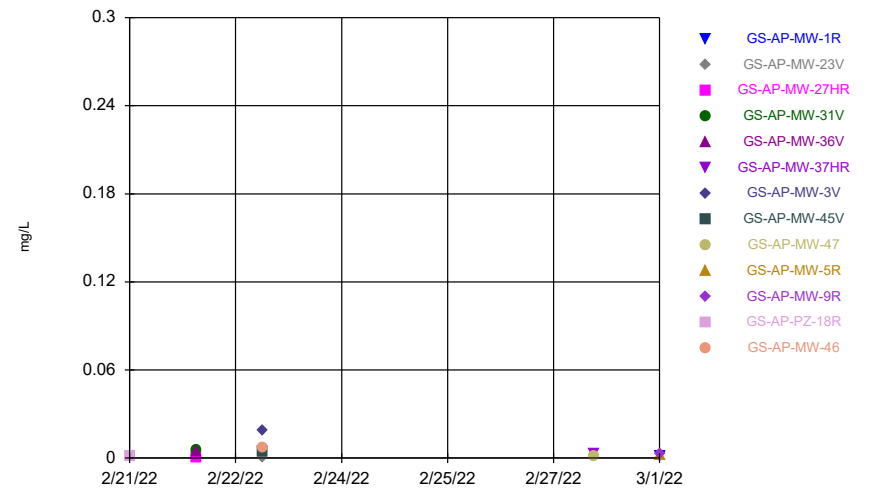
Constituent: Molybdenum Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



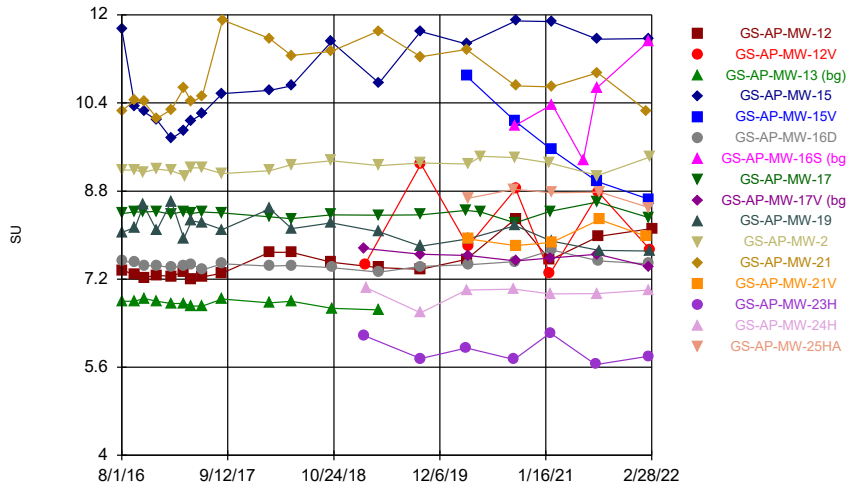
Constituent: Molybdenum Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



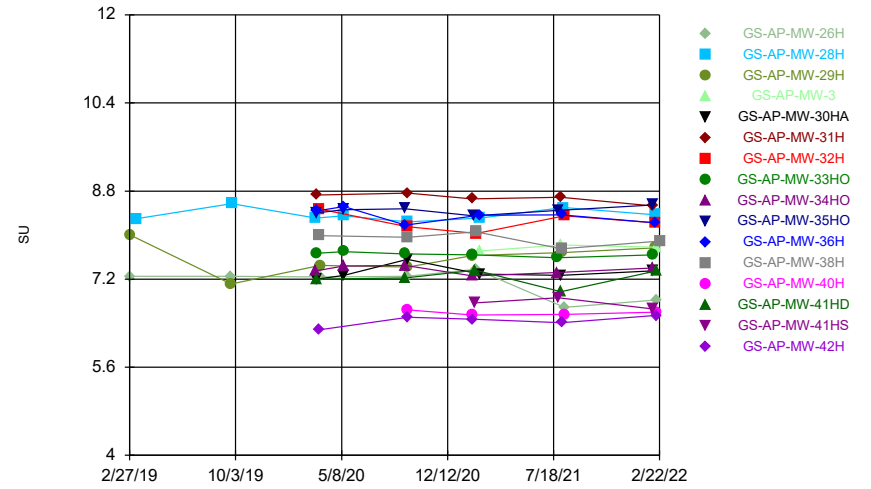
Constituent: Molybdenum Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



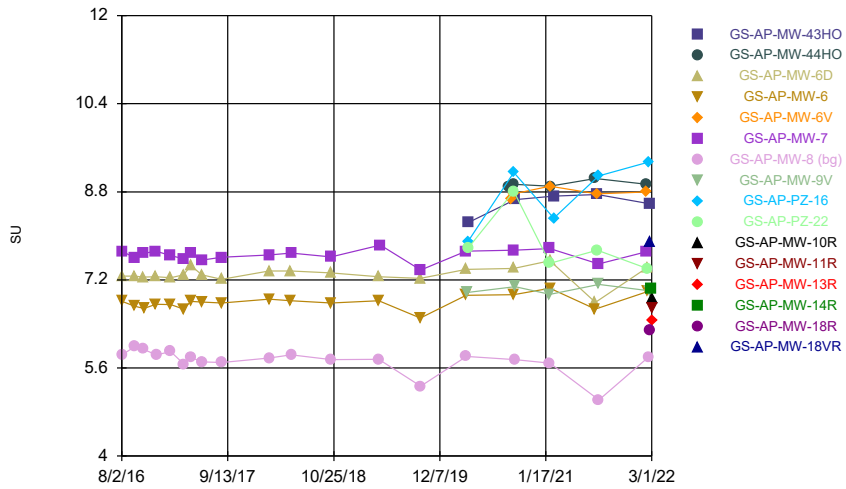
Constituent: pH Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



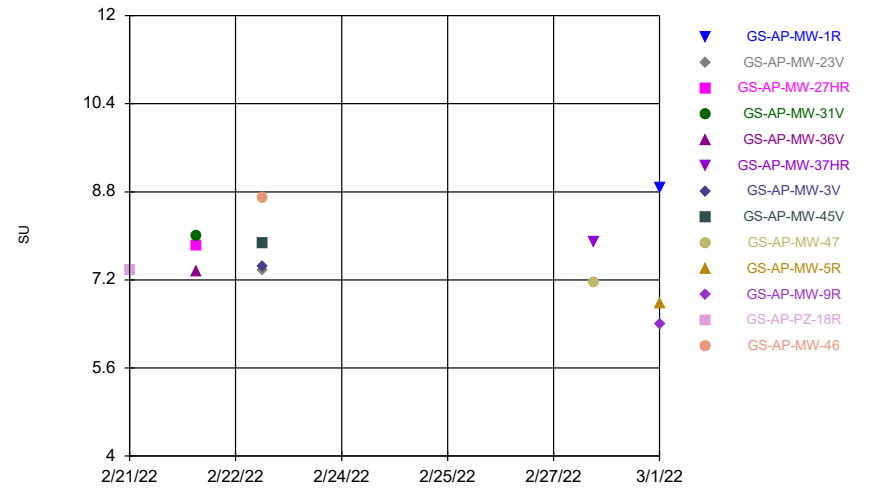
Constituent: pH Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



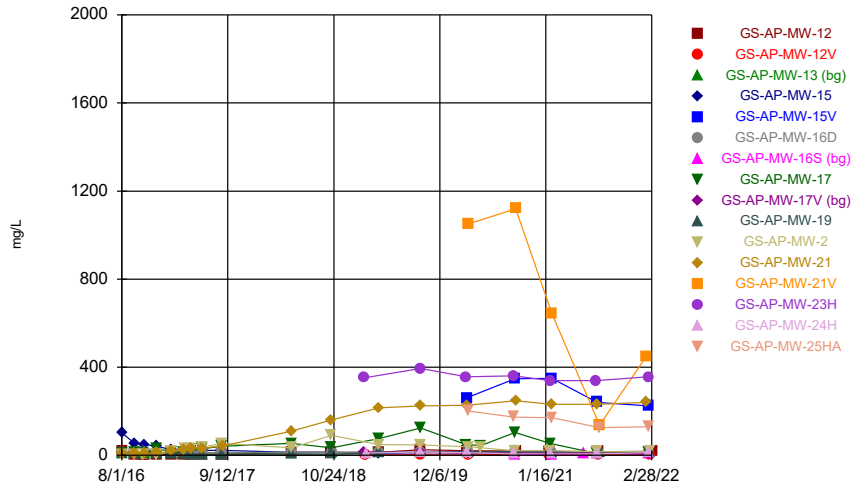
Constituent: pH Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series

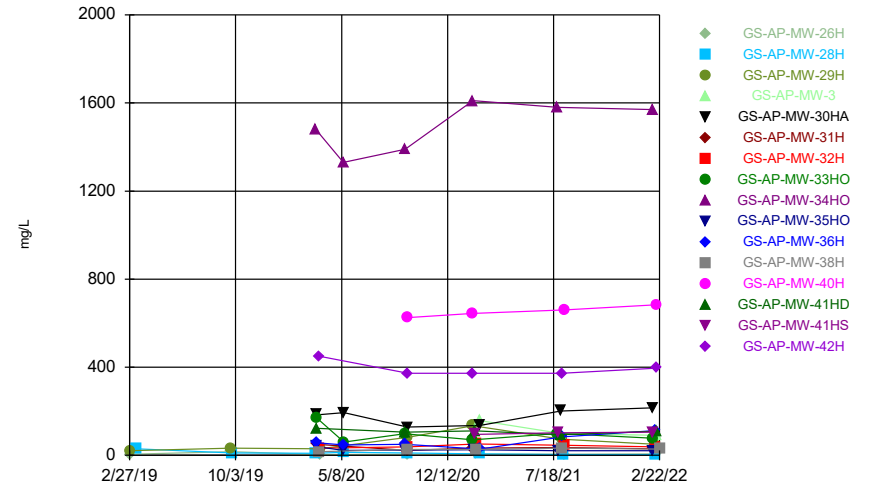


Constituent: pH Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

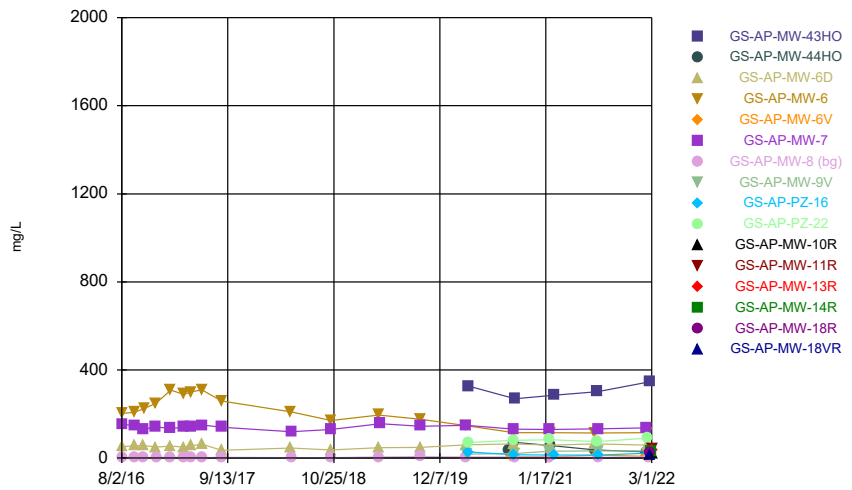
Time Series



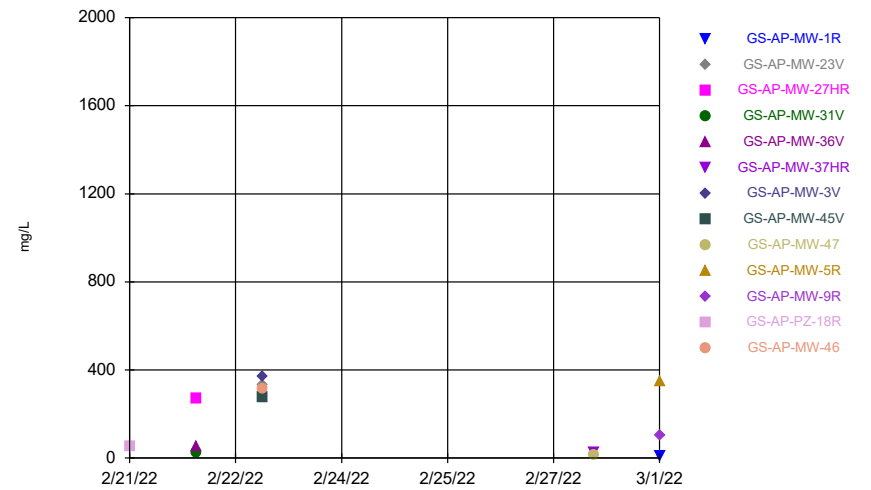
Time Series



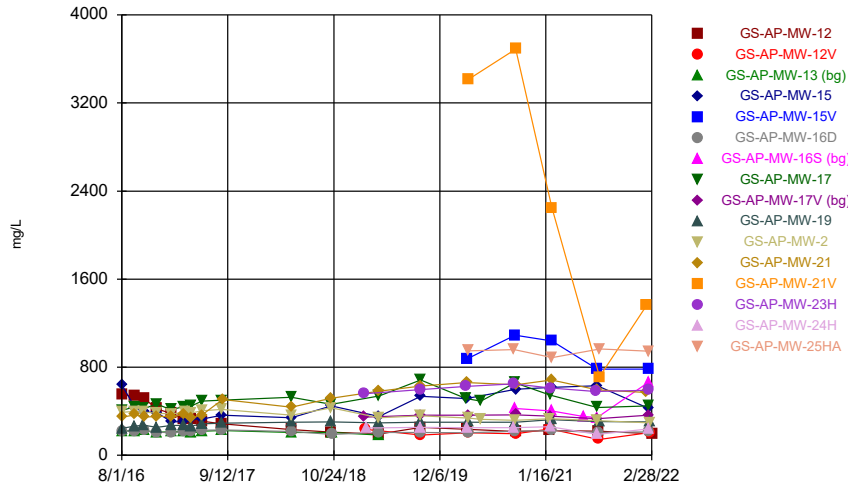
Time Series



Time Series

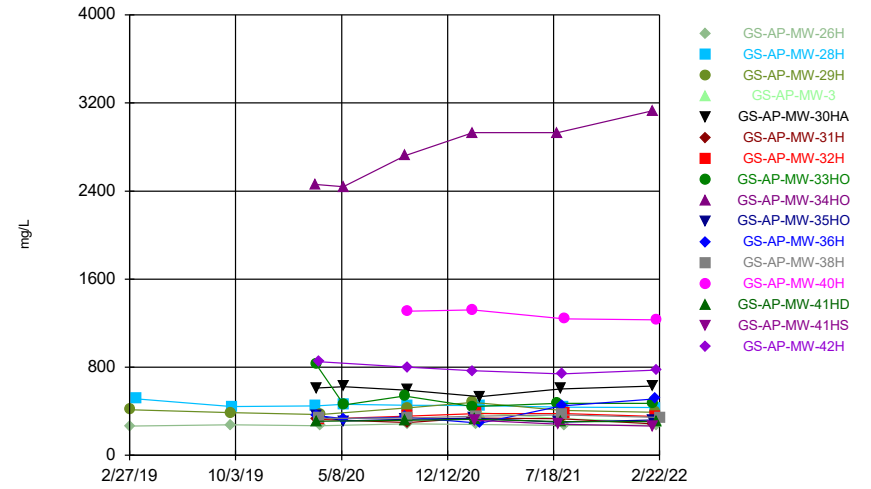


Time Series



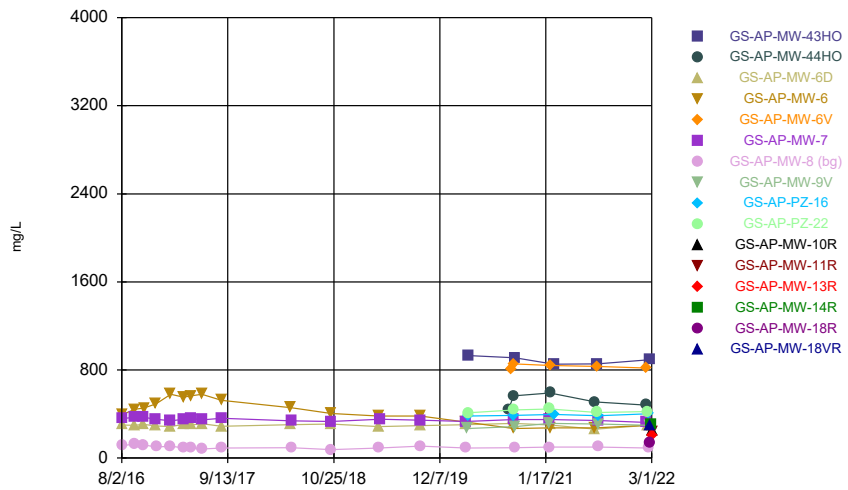
Constituent: TDS Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



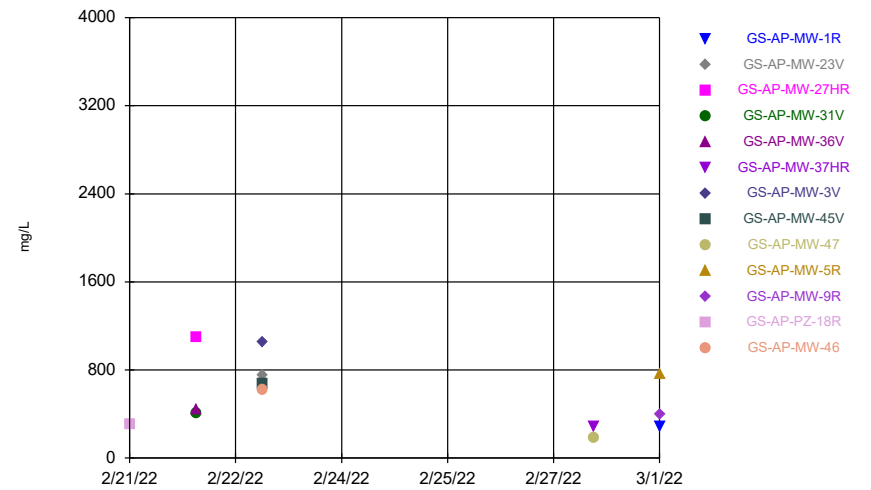
Constituent: TDS Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



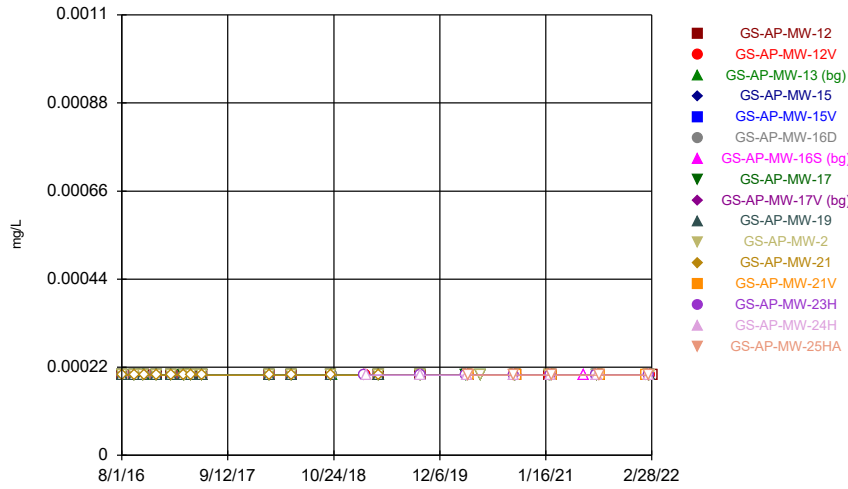
Constituent: TDS Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



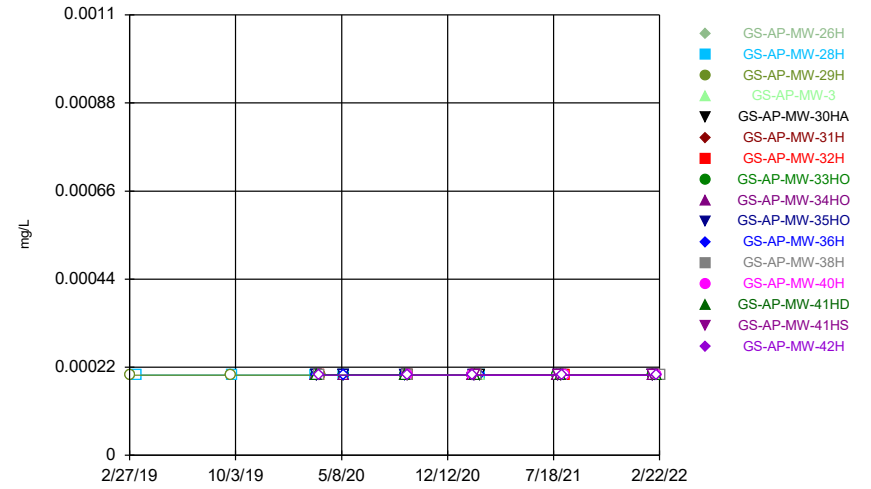
Constituent: TDS Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



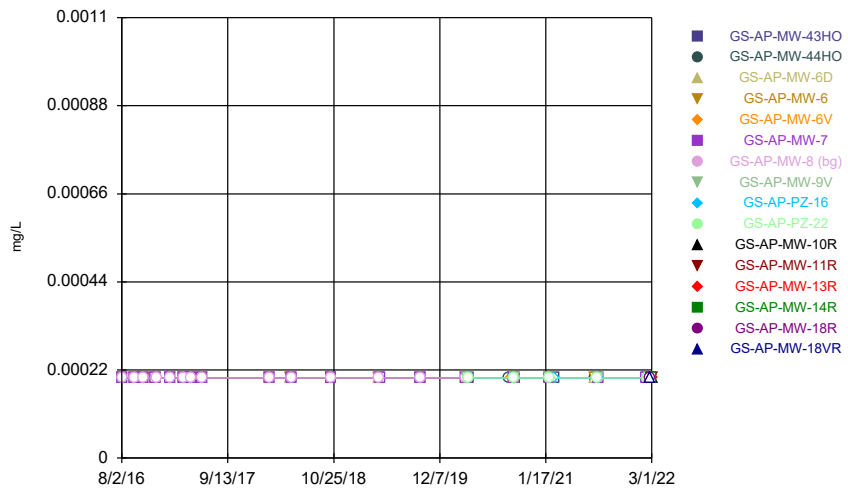
Constituent: Thallium Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



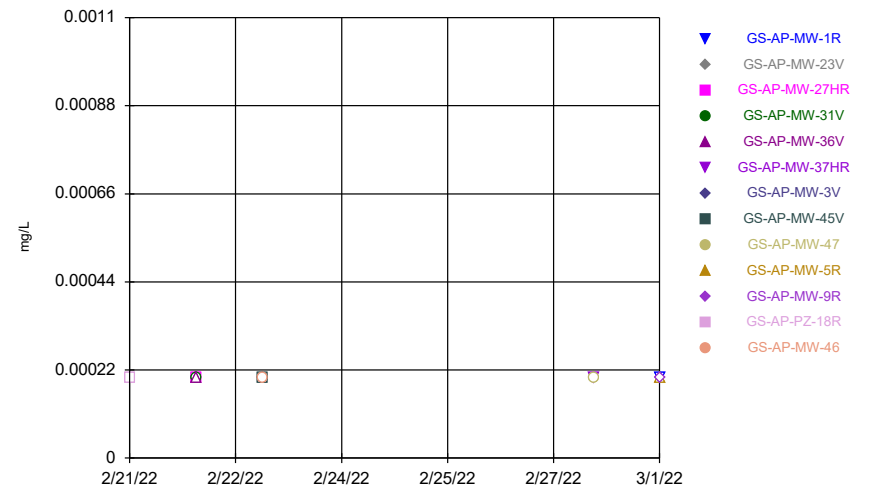
Constituent: Thallium Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



Constituent: Thallium Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



Constituent: Thallium Analysis Run 5/16/2022 2:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|--------------|--------------|------------------|--------------|--------------|--------------|------------------|--------------|------------------|
| 8/1/2016 | | | | 0.00115 (J) | | <0.00102 | | <0.00102 | |
| 8/2/2016 | | | <0.00102 | | | | | | |
| 8/3/2016 | <0.00102 | | | | | | | | |
| 9/19/2016 | | | | | | <0.00102 | | 0.000636 (J) | |
| 9/20/2016 | <0.00102 | | <0.00102 | 0.000876 (J) | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | <0.00102 | |
| 10/25/2016 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 12/13/2016 | 0.000681 (J) | | <0.00102 | | | 0.000633 (J) | | 0.00072 (J) | |
| 12/14/2016 | | | | 0.000858 (J) | | | | | |
| 2/6/2017 | | | | | | | | <0.00102 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 3/27/2017 | | | | | | | | <0.00102 | |
| 3/28/2017 | | | | <0.00102 | | | | | |
| 3/29/2017 | <0.00102 | | <0.00102 | | | <0.00102 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | <0.00102 | |
| 4/26/2017 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 6/5/2017 | | | | | | | | <0.00102 | |
| 6/6/2017 | | | | <0.00102 | | <0.00102 | | | |
| 6/7/2017 | <0.00102 | | <0.00102 | | | | | | |
| 2/19/2018 | | | | | | | | <0.00102 | |
| 2/20/2018 | <0.00102 | | <0.00102 | 0.000636 (J) | | | | | |
| 2/21/2018 | | | | | | <0.00102 | | | |
| 5/15/2018 | <0.00102 | | <0.00102 | <0.00102 | | | | <0.00102 | |
| 5/16/2018 | | | | | | <0.00102 | | | |
| 10/15/2018 | | | | <0.00102 | | | | <0.00102 | |
| 10/16/2018 | <0.00102 | | | | | | | | |
| 10/17/2018 | | | <0.00102 | | | <0.00102 | | | |
| 2/20/2019 | | | | | | | | | 0.00115 (J) |
| 2/21/2019 | | 0.000841 (J) | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | <0.00102 | | <0.00102 | | | | | | |
| 4/17/2019 | | | | <0.00102 | | <0.00102 | | <0.00102 | |
| 9/23/2019 | | | | | | | | <0.00102 | |
| 9/24/2019 | | | | <0.00102 | | <0.00102 | | | <0.00102 |
| 9/25/2019 | <0.00102 | 0.0025 (J) | | | | | | | |
| 3/16/2020 | | | | | | | | <0.00102 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.0022 (J) | | | 0.000976 (J) | 0.0028 (J) | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00128 (J) | | | | <0.00102 | | | |
| 3/25/2020 | | | | | | | | | <0.00102 |
| 5/12/2020 | | | | | | | | <0.00102 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.0028 (J) | | <0.00102 | <0.00102 | |
| 9/22/2020 | | | | | | <0.00102 | | | |
| 9/23/2020 | 0.00202 (J) | 0.00152 (J) | | 0.000844 (J) | | | | | <0.00102 |
| 2/1/2021 | 0.000518 (J) | 0.000861 (J) | | | | | | | |
| 2/2/2021 | | | | | | | | <0.00102 | <0.00102 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|--------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | <0.00102 | | | | | | |
| 8/2/2016 | | <0.00102 | <0.00102 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.00102 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | <0.00102 | | <0.00102 | | | | |
| 10/24/2016 | <0.00102 | <0.00102 | | | | | |
| 10/25/2016 | | | <0.00102 | | | | |
| 12/13/2016 | 0.000613 (J) | <0.00102 | | | | | |
| 12/14/2016 | | | 0.00119 (J) | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | <0.00102 | | | | | | |
| 2/8/2017 | | <0.00102 | <0.00102 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | <0.00102 | | <0.00102 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | <0.00102 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | <0.00102 | | | | |
| 2/21/2018 | <0.00102 | <0.00102 | | | | | |
| 5/15/2018 | | | <0.00102 | | | | |
| 5/16/2018 | <0.00102 | <0.00102 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.000809 (J) | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 0.000918 (J) | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 9/23/2019 | | | | <0.00102 | | | |
| 9/24/2019 | <0.00102 | | <0.00102 | | | <0.00102 | |
| 9/25/2019 | | <0.00102 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.00102 | | | |
| 3/18/2020 | | | <0.00102 | | | <0.00102 | |
| 3/23/2020 | | | | 0.000831 (J) | | | |
| 3/24/2020 | <0.00102 | | | | | | <0.00102 |
| 3/25/2020 | | <0.00102 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | <0.00102 | | | | | |
| 9/17/2020 | | | | <0.00102 | <0.00102 | <0.00102 | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | <0.00102 | <0.00102 | | | | | |
| 9/23/2020 | | | <0.00102 | <0.00102 | | | |
| 2/1/2021 | | <0.00102 | | | | | |
| 2/2/2021 | | | | | | <0.00102 | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | <0.00102 | | |
| 2/8/2021 | <0.00102 | | <0.00102 | | | | |
| 2/9/2021 | | | | 0.000661 (J) | | | |
| 2/10/2021 | | | | | | | <0.00102 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | <0.00102 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | <0.00102 | |
| 8/4/2021 | | <0.00102 | <0.00102 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | <0.00102 | | | | | | |
| 8/11/2021 | | | | <0.00102 | | | |
| 8/12/2021 | | | | | | | <0.00102 |
| 2/8/2022 | | | <0.00102 | <0.00102 | | | |
| 2/14/2022 | | | | | <0.00102 | | |
| 2/15/2022 | | | | | | <0.00102 | |
| 2/16/2022 | | | | | | | 0.00075 (J) |
| 2/22/2022 | <0.00102 | <0.00102 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.00102 | <0.00102 | | | | | |
| 3/18/2020 | | | | | <0.00102 | | |
| 3/24/2020 | | | <0.00102 | | | | <0.00102 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.00102 | | | | | | |
| 5/13/2020 | | <0.00102 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.00102 | | | | | | |
| 9/17/2020 | | <0.00102 | | | <0.00102 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | <0.00102 | <0.00102 | | | <0.00102 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | <0.00102 | | | |
| 2/3/2021 | | | | | | | <0.00102 |
| 2/4/2021 | <0.00102 | | | | | | |
| 2/8/2021 | | | | | <0.00102 | <0.00102 | |
| 2/9/2021 | | | <0.00102 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | <0.00102 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | <0.00102 | | | | | <0.00102 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.00102 | | |
| 8/4/2021 | | <0.00102 | <0.00102 | | | | <0.00102 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | <0.00102 | | | |
| 2/8/2022 | | | | | | <0.00102 | |
| 2/9/2022 | <0.00102 | | | | | | |
| 2/14/2022 | | <0.00102 | | | | | |
| 2/15/2022 | | | | <0.00102 | <0.00102 | | |
| 2/16/2022 | | | | | | | <0.00102 |
| 2/22/2022 | | | <0.00102 | | | | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | <0.00102 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.00102 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | <0.00102 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | <0.00102 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.00102 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.00102 | <0.00102 | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | <0.00102 | | |
| 3/1/2022 | | <0.00102 | <0.00102 | <0.00102 | | | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | <0.00102 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | <0.00102 |
| 2/28/2022 | | | | |
| 3/1/2022 | <0.00102 | <0.00102 | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 0.015 | | <0.0002 | | 0.00138 (J) | |
| 8/2/2016 | | | <0.0002 | | | | | | |
| 8/3/2016 | 0.11 | | | | | | | | |
| 9/19/2016 | | | | | | <0.0002 | | 0.00137 (J) | |
| 9/20/2016 | 0.0746 | | <0.0002 | 0.0111 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 0.00122 (J) | |
| 10/25/2016 | 0.0728 | | <0.0002 | 0.0109 | | <0.0002 | | | |
| 12/13/2016 | 0.0538 | | <0.0002 | | | <0.0002 | | 0.00243 (J) | |
| 12/14/2016 | | | | 0.011 | | | | | |
| 2/6/2017 | | | | | | | | 0.00158 (J) | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 0.0427 | | <0.0002 | 0.00625 | | <0.0002 | | | |
| 3/27/2017 | | | | | | | | 0.0011 (J) | |
| 3/28/2017 | | | | 0.00558 | | | | | |
| 3/29/2017 | 0.0404 | | <0.0002 | | | <0.0002 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 0.00133 (J) | |
| 4/26/2017 | 0.0372 | | <0.0002 | 0.007 | | <0.0002 | | | |
| 6/5/2017 | | | | | | | | 0.00115 (J) | |
| 6/6/2017 | | | | 0.00663 | | <0.0002 | | | |
| 6/7/2017 | 0.0307 | | <0.0002 | | | | | | |
| 2/19/2018 | | | | | | | | 0.00424 (J) | |
| 2/20/2018 | 0.0282 | | <0.0002 | 0.00724 | | | | | |
| 2/21/2018 | | | | | | <0.0002 | | | |
| 5/15/2018 | 0.0253 | | <0.0002 | 0.00749 | | | | 0.00352 (J) | |
| 5/16/2018 | | | | | | <0.0002 | | | |
| 10/15/2018 | | | | 0.0123 | | | | 0.0018 (J) | |
| 10/16/2018 | 0.0203 | | | | | | | | |
| 10/17/2018 | | | <0.0002 | | | <0.0002 | | | |
| 2/20/2019 | | | | | | | | | 0.0011 (J) |
| 2/21/2019 | | <0.0002 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | 0.014 | | <0.0002 | | | | | | |
| 4/17/2019 | | | | 0.00633 | | <0.0002 | | 0.00343 (J) | |
| 9/23/2019 | | | | | | | | 0.00631 | |
| 9/24/2019 | | | | 0.011 | | <0.0002 | | | 0.00149 (J) |
| 9/25/2019 | 0.0135 | 0.00129 (J) | | | | | | | |
| 3/16/2020 | | | | | | | | 0.00268 (J) | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.00693 | | | 0.0217 | 0.011 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00266 (J) | | | | <0.0002 | | | |
| 3/25/2020 | | | | | | | | | <0.0002 |
| 5/12/2020 | | | | | | | | 0.00326 (J) | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.0167 | | 0.00174 (J) | 0.0055 | |
| 9/22/2020 | | | | | | <0.0002 | | | |
| 9/23/2020 | 0.00616 | 0.00176 (J) | | 0.0165 | | | | | <0.0002 |
| 2/1/2021 | 0.00747 | 0.00154 | | | | | | | |
| 2/2/2021 | | | | | | | 0.00478 | | 0.000243 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | <0.0002 | | | | | | |
| 8/2/2016 | | <0.0002 | 0.0027 (J) | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.0002 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | <0.0002 | | 0.00258 (J) | | | | |
| 10/24/2016 | <0.0002 | <0.0002 | | | | | |
| 10/25/2016 | | | 0.00214 (J) | | | | |
| 12/13/2016 | <0.0002 | <0.0002 | | | | | |
| 12/14/2016 | | | 0.00193 (J) | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | <0.0002 | | | | | | |
| 2/8/2017 | | <0.0002 | 0.00188 (J) | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | <0.0002 | | 0.00153 (J) | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | <0.0002 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.0002 | <0.0002 | 0.00135 (J) | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.0002 | <0.0002 | 0.00131 (J) | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | <0.0002 | | | | |
| 2/21/2018 | 0.00138 (J) | <0.0002 | | | | | |
| 5/15/2018 | | | <0.0002 | | | | |
| 5/16/2018 | 0.00114 (J) | <0.0002 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.00216 (J) | <0.0002 | <0.0002 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.0306 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | <0.0002 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.00302 (J) | <0.0002 | <0.0002 | | | | |
| 9/23/2019 | | | | 0.0369 | | | |
| 9/24/2019 | 0.00289 (J) | | <0.0002 | | | <0.0002 | |
| 9/25/2019 | | <0.0002 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 0.0524 | | | |
| 3/18/2020 | | | <0.0002 | | | <0.0002 | |
| 3/23/2020 | | | | 0.0159 | | | |
| 3/24/2020 | 0.00313 (J) | | | | | | 0.00798 |
| 3/25/2020 | | <0.0002 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | <0.0002 | | | | | |
| 9/17/2020 | | | | 0.0579 | | <0.0002 | 0.00904 |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 0.00313 (J) | <0.0002 | | | | | |
| 9/23/2020 | | | <0.0002 | 0.01 | | | |
| 2/1/2021 | | <0.0002 | | | | | |
| 2/2/2021 | | | | | | 0.000341 | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 0.0562 | | |
| 2/8/2021 | 0.00178 | | 0.000624 | | | | |
| 2/9/2021 | | | | 0.0063 | | | |
| 2/10/2021 | | | | | | | 0.00923 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 0.0474 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 0.00033 | |
| 8/4/2021 | | <0.0002 | 0.00054 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 0.00133 | | | | | | |
| 8/11/2021 | | | | 0.00161 | | | |
| 8/12/2021 | | | | | | | 0.00888 |
| 2/8/2022 | | | 0.00046 | 0.00551 | | | |
| 2/14/2022 | | | | | 0.061 | | |
| 2/15/2022 | | | | | | 0.00029 | |
| 2/16/2022 | | | | | | | 0.00968 |
| 2/22/2022 | 0.00098 | <0.0002 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.00105 (J) | 0.00171 (J) | | | | | |
| 3/18/2020 | | | | | <0.0002 | | |
| 3/24/2020 | | | 0.00302 (J) | | | | 0.00944 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.0002 | | | | | | |
| 5/13/2020 | | 0.00122 (J) | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.0002 | | | | | | |
| 9/17/2020 | | 0.0013 (J) | | | 0.0016 (J) | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 0.00304 (J) | 0.00193 (J) | | | 0.00912 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 0.000958 | | | |
| 2/3/2021 | | | | | | | 0.00806 |
| 2/4/2021 | 0.000442 | | | | | | |
| 2/8/2021 | | | | | 0.00148 | 0.000551 | |
| 2/9/2021 | | | 0.0026 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 0.00102 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 0.00024 | | | | | 0.00038 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.00289 | | |
| 8/4/2021 | | 0.00246 | 0.00287 | | | | 0.00846 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 0.00046 | | | |
| 2/8/2022 | | | | | | 0.00144 | |
| 2/9/2022 | 0.00019 (J) | | | | | | |
| 2/14/2022 | | 0.00235 | | | | | |
| 2/15/2022 | | | | 0.0004 | 0.00284 | | |
| 2/16/2022 | | | | | | | 0.00846 |
| 2/22/2022 | | | 0.00221 | | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 0.00367 (J) | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.00387 (J) | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 0.00338 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 0.00296 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.00358 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.00037 | 0.00164 | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 0.00231 | | |
| 3/1/2022 | | 0.00209 | 0.00235 | 0.011 | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 0.00167 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 0.105 |
| 2/28/2022 | | | | |
| 3/1/2022 | 0.00048 | 0.00529 | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 0.117 | | 0.316 | | 0.0696 | |
| 8/2/2016 | | | 0.184 | | | | | | |
| 8/3/2016 | 0.144 | | | | | | | | |
| 9/19/2016 | | | | | | 0.276 | | 0.0503 | |
| 9/20/2016 | 0.102 | | 0.153 | 0.193 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 0.0468 | |
| 10/25/2016 | 0.109 | | 0.176 | 0.222 | | 0.3 | | | |
| 12/13/2016 | 0.115 | | 0.184 | | | 0.314 | | 0.0472 | |
| 12/14/2016 | | | | 0.222 | | | | | |
| 2/6/2017 | | | | | | | | 0.0498 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 0.122 | | 0.189 | 0.294 | | 0.324 | | | |
| 3/27/2017 | | | | | | | | 0.0559 | |
| 3/28/2017 | | | | 0.288 | | | | | |
| 3/29/2017 | 0.116 | | 0.184 | | | 0.316 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 0.055 | |
| 4/26/2017 | 0.127 | | 0.177 | 0.24 | | 0.323 | | | |
| 6/5/2017 | | | | | | | | 0.0552 | |
| 6/6/2017 | | | | 0.228 | | 0.29 | | | |
| 6/7/2017 | 0.115 | | 0.164 | | | | | | |
| 2/19/2018 | | | | | | | | 0.077 | |
| 2/20/2018 | 0.132 | | 0.165 | 0.224 | | | | | |
| 2/21/2018 | | | | | | 0.3 | | | |
| 5/15/2018 | 0.163 | | 0.172 | 0.212 | | | | 0.0751 | |
| 5/16/2018 | | | | | | 0.315 | | | |
| 10/15/2018 | | | | 0.133 | | | | 0.0682 | |
| 10/16/2018 | 0.159 | | | | | | | | |
| 10/17/2018 | | | 0.165 | | | 0.331 | | | |
| 2/20/2019 | | | | | | | | | 0.191 |
| 2/21/2019 | | 1.35 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | 0.161 | | 0.16 | | | | | | |
| 4/17/2019 | | | | 0.264 | | 0.322 | | 0.0946 | |
| 9/23/2019 | | | | | | | | 0.135 | |
| 9/24/2019 | | | | 0.0913 | | 0.342 | | | 0.208 |
| 9/25/2019 | 0.202 | 1.06 | | | | | | | |
| 3/16/2020 | | | | | | | | 0.0883 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.195 | | | 0.14 | 0.155 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 1.43 | | | | 0.323 | | | |
| 3/25/2020 | | | | | | | | | 0.314 |
| 5/12/2020 | | | | | | | | 0.0941 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.18 | | 0.0766 | 0.128 | |
| 9/22/2020 | | | | | | 0.342 | | | |
| 9/23/2020 | 0.193 | 1.27 | | 0.119 | | | | | 0.299 |
| 2/1/2021 | 0.201 | 1.6 | | | | | | | |
| 2/2/2021 | | | | | | | | 0.107 | 0.308 |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 0.492 | | | | | | |
| 8/2/2016 | | 0.0895 | 0.0535 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | 0.0744 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 0.371 | | 0.0458 | | | | |
| 10/24/2016 | 0.311 | 0.0787 | | | | | |
| 10/25/2016 | | | 0.0489 | | | | |
| 12/13/2016 | 0.374 | 0.0758 | | | | | |
| 12/14/2016 | | | 0.0494 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 0.368 | | | | | | |
| 2/8/2017 | | 0.0823 | 0.0449 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 0.391 | | 0.0446 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 0.0768 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.371 | 0.077 | 0.0424 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.33 | 0.0711 | 0.0402 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | 0.0441 | | | | |
| 2/21/2018 | 0.291 | 0.0864 | | | | | |
| 5/15/2018 | | | 0.0456 | | | | |
| 5/16/2018 | 0.343 | 0.0658 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.35 | 0.0846 | 0.0909 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.0227 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 0.887 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.316 | 0.0576 | 0.0914 | | | | |
| 9/23/2019 | | | | 0.0148 | | | |
| 9/24/2019 | 0.356 | | 0.114 | | | 1.04 | |
| 9/25/2019 | | 0.065 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 0.0143 | | | |
| 3/18/2020 | | | 0.105 | | | 0.964 | |
| 3/23/2020 | | | | 0.0574 | | | |
| 3/24/2020 | 0.324 | | | | | | 0.147 |
| 3/25/2020 | | 0.0602 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 0.0528 | | | | | |
| 9/17/2020 | | | | 0.0146 | | 0.988 | 0.164 |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 0.337 | 0.0563 | | | | | |
| 9/23/2020 | | | 0.157 | 0.0438 | | | |
| 2/1/2021 | | 0.0578 | | | | | |
| 2/2/2021 | | | | | | 0.952 | |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 0.0138 | | |
| 2/8/2021 | 0.36 | | 0.151 | | | | |
| 2/9/2021 | | | | 0.028 | | | |
| 2/10/2021 | | | | | | | 0.208 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 0.0133 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 1.04 | |
| 8/4/2021 | | 0.0702 | 0.148 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 0.343 | | | | | | |
| 8/11/2021 | | | | 0.0535 | | | |
| 8/12/2021 | | | | | | | 0.2 |
| 2/8/2022 | | | 0.143 | 0.0631 | | | |
| 2/14/2022 | | | | | 0.0166 | | |
| 2/15/2022 | | | | | | 0.992 | |
| 2/16/2022 | | | | | | | 0.23 |
| 2/22/2022 | 0.334 | 0.0501 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.0426 | 0.0353 | | | | | |
| 3/18/2020 | | | | | 0.0393 | | |
| 3/24/2020 | | | 0.253 | | | | 0.0253 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | 0.0472 | | | | | | |
| 5/13/2020 | | 0.03 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | 0.0532 | | | | | | |
| 9/17/2020 | | 0.0378 | | | 0.0414 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 0.319 | 0.0417 | | | 0.0237 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 0.0384 | | | |
| 2/3/2021 | | | | | | | 0.0216 |
| 2/4/2021 | 0.052 | | | | | | |
| 2/8/2021 | | | | | 0.0434 | 0.0544 | |
| 2/9/2021 | | | 0.356 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 0.0463 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 0.0492 | | | | | 0.0445 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.045 | | |
| 8/4/2021 | | 0.0905 | 0.359 | | | | 0.0256 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 0.0358 | | | |
| 2/8/2022 | | | | | | 0.0542 | |
| 2/9/2022 | 0.0516 | | | | | | |
| 2/14/2022 | | 0.136 | | | | | |
| 2/15/2022 | | | | 0.0298 | 0.0441 | | |
| 2/16/2022 | | | | | | | 0.0226 |
| 2/22/2022 | | | 0.301 | | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 0.104 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.109 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 0.0891 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 0.0953 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.0695 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.0716 | 0.187 | |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 0.174 | | |
| 3/1/2022 | | 0.701 | 0.107 | 0.0617 | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 0.0662 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 0.0652 |
| 2/28/2022 | | | | |
| 3/1/2022 | 0.0695 | 0.0425 | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | <0.00102 | | <0.00102 | | <0.00102 | |
| 8/2/2016 | | | <0.00102 | | | | | | |
| 8/3/2016 | <0.00102 | | | | | | | | |
| 9/19/2016 | | | | | | <0.00102 | | <0.00102 | |
| 9/20/2016 | <0.00102 | | <0.00102 | <0.00102 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | <0.00102 | |
| 10/25/2016 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 12/13/2016 | <0.00102 | | <0.00102 | | | <0.00102 | | <0.00102 | |
| 12/14/2016 | | | | <0.00102 | | | | | |
| 2/6/2017 | | | | | | | | <0.00102 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 3/27/2017 | | | | | | | | <0.00102 | |
| 3/28/2017 | | | | <0.00102 | | | | | |
| 3/29/2017 | <0.00102 | | <0.00102 | | | <0.00102 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | <0.00102 | |
| 4/26/2017 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 6/5/2017 | | | | | | | | <0.00102 | |
| 6/6/2017 | | | | <0.00102 | | <0.00102 | | | |
| 6/7/2017 | <0.00102 | | <0.00102 | | | | | | |
| 2/19/2018 | | | | | | | | <0.00102 | |
| 2/20/2018 | <0.00102 | | <0.00102 | <0.00102 | | | | | |
| 2/21/2018 | | | | | | <0.00102 | | | |
| 5/15/2018 | <0.00102 | | <0.00102 | <0.00102 | | | | <0.00102 | |
| 5/16/2018 | | | | | | <0.00102 | | | |
| 10/15/2018 | | | | <0.00102 | | | | <0.00102 | |
| 10/16/2018 | <0.00102 | | | | | | | | |
| 10/17/2018 | | | <0.00102 | | | 0.00109 (J) | | | |
| 2/20/2019 | | | | | | | | | <0.00102 |
| 2/21/2019 | | <0.00102 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | <0.00102 | | <0.00102 | | | | | | |
| 4/17/2019 | | | | <0.00102 | | <0.00102 | | <0.00102 | |
| 9/23/2019 | | | | | | | | <0.00102 | |
| 9/24/2019 | | | | <0.00102 | | <0.00102 | | | <0.00102 |
| 9/25/2019 | <0.00102 | <0.00102 | | | | | | | |
| 3/16/2020 | | | | | | | | <0.00102 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.00102 | | | <0.00102 | <0.00102 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <0.00102 | | | | <0.00102 | | | |
| 3/25/2020 | | | | | | | | | <0.00102 |
| 5/12/2020 | | | | | | | | <0.00102 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.00102 | | <0.00102 | <0.00102 | |
| 9/22/2020 | | | | | | <0.00102 | | | |
| 9/23/2020 | <0.00102 | <0.00102 | | <0.00102 | | | | | <0.00102 |
| 2/1/2021 | <0.00102 | <0.00102 | | | | | | | |
| 2/2/2021 | | | | | | | | <0.00102 | <0.00102 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | <0.00102 | | | | | | |
| 8/2/2016 | | <0.00102 | <0.00102 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.00102 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | <0.00102 | | <0.00102 | | | | |
| 10/24/2016 | <0.00102 | <0.00102 | | | | | |
| 10/25/2016 | | | <0.00102 | | | | |
| 12/13/2016 | <0.00102 | <0.00102 | | | | | |
| 12/14/2016 | | | <0.00102 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | <0.00102 | | | | | | |
| 2/8/2017 | | <0.00102 | <0.00102 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | <0.00102 | | <0.00102 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | <0.00102 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | <0.00102 | | | | |
| 2/21/2018 | <0.00102 | <0.00102 | | | | | |
| 5/15/2018 | | | <0.00102 | | | | |
| 5/16/2018 | <0.00102 | <0.00102 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.00102 | 0.00138 (J) | <0.00102 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.00102 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | <0.00102 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 9/23/2019 | | | | <0.00102 | | | |
| 9/24/2019 | <0.00102 | | <0.00102 | | | <0.00102 | |
| 9/25/2019 | | <0.00102 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.00102 | | | |
| 3/18/2020 | | | <0.00102 | | | <0.00102 | |
| 3/23/2020 | | | | <0.00102 | | | |
| 3/24/2020 | <0.00102 | | | | | | <0.00102 |
| 3/25/2020 | | <0.00102 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | <0.00102 | | | | | |
| 9/17/2020 | | | | <0.00102 | <0.00102 | <0.00102 | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | <0.00102 | <0.00102 | | | | | |
| 9/23/2020 | | | <0.00102 | <0.00102 | | | |
| 2/1/2021 | | <0.00102 | | | | | |
| 2/2/2021 | | | | | | <0.00102 | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | <0.00102 | | |
| 2/8/2021 | <0.00102 | | <0.00102 | | | | |
| 2/9/2021 | | | | <0.00102 | | | |
| 2/10/2021 | | | | | | | <0.00102 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | <0.00102 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | <0.00102 | |
| 8/4/2021 | | <0.00102 | <0.00102 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | <0.00102 | | | | | | |
| 8/11/2021 | | | | <0.00102 | | | |
| 8/12/2021 | | | | | | | <0.00102 |
| 2/8/2022 | | | <0.00102 | <0.00102 | | | |
| 2/14/2022 | | | | | <0.00102 | | |
| 2/15/2022 | | | | | | <0.00102 | |
| 2/16/2022 | | | | | | | <0.00102 |
| 2/22/2022 | <0.00102 | <0.00102 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.00102 | <0.00102 | | | | | |
| 3/18/2020 | | | | | <0.00102 | | |
| 3/24/2020 | | | <0.00102 | | | | <0.00102 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.00102 | | | | | | |
| 5/13/2020 | | <0.00102 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.00102 | | | | | | |
| 9/17/2020 | | <0.00102 | | | <0.00102 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | <0.00102 | <0.00102 | | | <0.00102 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | <0.00102 | | | |
| 2/3/2021 | | | | | | | <0.00102 |
| 2/4/2021 | <0.00102 | | | | | | |
| 2/8/2021 | | | | | <0.00102 | <0.00102 | |
| 2/9/2021 | | | <0.00102 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | <0.00102 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | <0.00102 | | | | | <0.00102 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.00102 | | |
| 8/4/2021 | | <0.00102 | <0.00102 | | | | <0.00102 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | <0.00102 | | | |
| 2/8/2022 | | | | | | <0.00102 | |
| 2/9/2022 | <0.00102 | | | | | | |
| 2/14/2022 | | <0.00102 | | | | | |
| 2/15/2022 | | | | <0.00102 | <0.00102 | | |
| 2/16/2022 | | | | | | | <0.00102 |
| 2/22/2022 | | | <0.00102 | | | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | <0.00102 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.00102 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | <0.00102 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | <0.00102 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.00102 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | | <0.00102 | <0.00102 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | <0.00102 | | |
| 3/1/2022 | | <0.00102 | <0.00102 | <0.00102 | | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | <0.00102 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | <0.00102 |
| 2/28/2022 | | | | |
| 3/1/2022 | <0.00102 | <0.00102 | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 0.0955 (J) | | 0.0266 (J) | | 0.0712 (J) | |
| 8/2/2016 | | | <0.1015 | | | | | | |
| 8/3/2016 | 0.34 | | | | | | | | |
| 9/19/2016 | | | | | | 0.0262 (J) | | 0.0716 (J) | |
| 9/20/2016 | 0.299 | | <0.1015 | 0.0706 (J) | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 0.0858 (J) | |
| 10/25/2016 | 0.323 | | <0.1015 | 0.0849 (J) | | 0.0273 (J) | | | |
| 12/13/2016 | 0.294 | | <0.1015 | | | 0.0258 (J) | | 0.0875 (J) | |
| 12/14/2016 | | | | 0.0914 (J) | | | | | |
| 2/6/2017 | | | | | | | | 0.0729 (J) | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 0.264 | | <0.1015 | 0.0524 (J) | | 0.0249 (J) | | | |
| 3/27/2017 | | | | | | | | 0.0706 (J) | |
| 3/28/2017 | | | | 0.0532 (J) | | | | | |
| 3/29/2017 | 0.246 | | <0.1015 | | | 0.0247 (J) | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 0.0737 (J) | |
| 4/26/2017 | 0.234 | | <0.1015 | 0.0598 (J) | | 0.0264 (J) | | | |
| 6/5/2017 | | | | | | | | 0.0767 (J) | |
| 6/6/2017 | | | | 0.0576 (J) | | 0.0247 (J) | | | |
| 6/7/2017 | 0.194 | | <0.1015 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 0.156 | | <0.1015 | 0.0702 (J) | | 0.0246 (J) | | 0.0786 (J) | |
| 8/23/2017 | | | | | | | | | |
| 5/15/2018 | 0.0781 (J) | | <0.1015 | 0.0567 (J) | | | | 0.0953 (J) | |
| 5/16/2018 | | | | | | 0.0247 (J) | | | |
| 10/15/2018 | | | | 0.07 (J) | | | | 0.0842 (J) | |
| 10/16/2018 | 0.057 (J) | | | | | | | | |
| 10/17/2018 | | | <0.1015 | | | 0.0251 (J) | | | |
| 2/20/2019 | | | | | | | | | 0.0337 (J) |
| 2/21/2019 | | 0.0303 (J) | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | 0.0385 (J) | | <0.1015 | | | | | | |
| 4/17/2019 | | | | 0.0388 (J) | | <0.1015 | | 0.0916 (J) | |
| 9/23/2019 | | | | | | | | 0.116 | |
| 9/24/2019 | | | | 0.0607 (J) | | <0.1015 | | | 0.0532 (J) |
| 9/25/2019 | 0.122 | 0.0347 (J) | | | | | | | |
| 3/16/2020 | | | | | | | | 0.0894 (J) | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.0449 (J) | | | 0.0596 (J) | 0.0565 (J) | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.0343 (J) | | | | <0.1015 | | | |
| 3/25/2020 | | | | | | | | | 0.0482 (J) |
| 5/12/2020 | | | | | | | | 0.0862 (J) | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.0712 (J) | | 0.0777 (J) | 0.102 | |
| 9/22/2020 | | | | | | <0.1015 | | | |
| 9/23/2020 | 0.0446 (J) | 0.0322 (J) | | 0.0537 (J) | | | | | 0.0478 (J) |
| 2/1/2021 | 0.0672 (J) | <0.1015 | | | | | | | |
| 2/2/2021 | | | | | | | 0.0946 (J) | | 0.0396 (J) |

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 0.0279 (J) | | | | | | |
| 8/2/2016 | | 0.178 | 0.176 (o) | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | 0.0937 (J) | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 0.0235 (J) | | 0.0723 (J) | | | | |
| 10/24/2016 | 0.0444 (J) | 0.0986 (J) | | | | | |
| 10/25/2016 | | | 0.0867 (J) | | | | |
| 12/13/2016 | 0.0285 (J) | 0.0965 (J) | | | | | |
| 12/14/2016 | | | 0.092 (J) | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 0.03 (J) | | | | | | |
| 2/8/2017 | | 0.0896 (J) | 0.0803 (J) | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 0.0309 (J) | | 0.0804 (J) | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 0.0871 (J) | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.0273 (J) | 0.0818 (J) | 0.0801 (J) | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.0212 (J) | 0.0805 (J) | 0.0795 (J) | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | 0.102 | | | | | |
| 8/22/2017 | 0.0294 (J) | | | | | | |
| 8/23/2017 | | | 0.0764 (J) | | | | |
| 5/15/2018 | | | 0.0769 (J) | | | | |
| 5/16/2018 | 0.0356 (J) | 0.147 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.0363 (J) | 0.169 | 0.0764 (J) | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.0498 (J) | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 0.0719 (J) | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.0336 (J) | 0.165 | 0.0675 (J) | | | | |
| 9/23/2019 | | | | 0.0641 (J) | | | |
| 9/24/2019 | 0.0375 (J) | | 0.0843 (J) | | | 0.0821 (J) | |
| 9/25/2019 | | 0.153 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 0.0504 (J) | | | |
| 3/18/2020 | | | 0.0824 (J) | | | 0.0811 (J) | |
| 3/23/2020 | | | | 0.122 | | | |
| 3/24/2020 | 0.0398 (J) | | | | | | 0.146 |
| 3/25/2020 | | 0.163 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 0.154 | | | | | |
| 9/17/2020 | | | | 0.0637 (J) | 0.069 (J) | 0.138 | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 0.037 (J) | 0.133 | | | | | |
| 9/23/2020 | | | 0.0871 (J) | 0.126 | | | |
| 2/1/2021 | | 0.13 | | | | | |
| 2/2/2021 | | | | | | 0.0685 (J) | |

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 0.0425 (J) | | |
| 2/8/2021 | 0.0336 (J) | | 0.0991 (J) | | | | |
| 2/9/2021 | | | | 0.114 | | | |
| 2/10/2021 | | | | | | | 0.147 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 0.0474 (J) | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 0.0721 (J) | |
| 8/4/2021 | | 0.117 | 0.0993 (J) | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | <0.1015 | | | | | | |
| 8/11/2021 | | | | 0.0631 (J) | | | |
| 8/12/2021 | | | | | | | 0.13 |
| 2/8/2022 | | | 0.111 | 0.0938 (J) | | | |
| 2/14/2022 | | | | | 0.035 (J) | | |
| 2/15/2022 | | | | | | 0.0708 (J) | |
| 2/16/2022 | | | | | | | 0.145 |
| 2/22/2022 | <0.1015 | 0.112 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.1015 | 0.0394 (J) | | | | | |
| 3/18/2020 | | | | 1.45 | | | |
| 3/24/2020 | | | 0.0468 (J) | | | | <0.1015 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.1015 | | | | | | |
| 5/13/2020 | | 0.0359 (J) | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.1015 | | | | | | |
| 9/17/2020 | | 0.0345 (J) | | 1.42 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 0.0461 (J) | 0.0326 (J) | | | 0.0469 (J) |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 0.0305 (J) | | | |
| 2/3/2021 | | | | | | | 0.053 (J) |
| 2/4/2021 | <0.1015 | | | | | | |
| 2/8/2021 | | | | 1.48 | | 1.06 | |
| 2/9/2021 | | | 0.0504 (J) | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 0.0413 (J) | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | <0.1015 | | | | | 1.09 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 1.48 | | | |
| 8/4/2021 | | 0.0449 (J) | 0.0479 (J) | | | | 0.0578 (J) |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | <0.1015 | | | |
| 2/8/2022 | | | | | | 1.04 | |
| 2/9/2022 | <0.1015 | | | | | | |
| 2/14/2022 | | 0.0467 (J) | | | | | |
| 2/15/2022 | | | | 0.0321 (J) | 1.52 | | |
| 2/16/2022 | | | | | | | 0.0502 (J) |
| 2/22/2022 | | | 0.0452 (J) | | | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 0.0521 (J) | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.0454 (J) | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 0.0486 (J) | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 0.0478 (J) | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.047 (J) | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.1015 | | 0.0488 (J) |

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | <0.1015 | | |
| 3/1/2022 | | <0.1015 | 0.0844 (J) | <0.1015 | | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 0.0925 (J) | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 0.768 |
| 2/28/2022 | | | | |
| 3/1/2022 | 0.036 (J) | 0.106 | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | <0.0002 | | <0.0002 | | <0.0002 | |
| 8/2/2016 | | | <0.0002 | | | | | | |
| 8/3/2016 | <0.0002 | | | | | | | | |
| 9/19/2016 | | | | | | <0.0002 | | <0.0002 | |
| 9/20/2016 | <0.0002 | | <0.0002 | <0.0002 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | <0.0002 | |
| 10/25/2016 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 12/13/2016 | <0.0002 | | <0.0002 | | | <0.0002 | | <0.0002 | |
| 12/14/2016 | | | | <0.0002 | | | | | |
| 2/6/2017 | | | | | | | | <0.0002 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 3/27/2017 | | | | | | | | <0.0002 | |
| 3/28/2017 | | | | <0.0002 | | | | | |
| 3/29/2017 | <0.0002 | | <0.0002 | | | <0.0002 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | <0.0002 | |
| 4/26/2017 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 6/5/2017 | | | | | | | | <0.0002 | |
| 6/6/2017 | | | | <0.0002 | | <0.0002 | | | |
| 6/7/2017 | <0.0002 | | <0.0002 | | | | | | |
| 2/19/2018 | | | | | | | | <0.0002 | |
| 2/20/2018 | <0.0002 | | <0.0002 | <0.0002 | | | | | |
| 2/21/2018 | | | | | | <0.0002 | | | |
| 5/15/2018 | <0.0002 | | <0.0002 | <0.0002 | | | | <0.0002 | |
| 5/16/2018 | | | | | | <0.0002 | | | |
| 10/15/2018 | | | | <0.0002 | | | | <0.0002 | |
| 10/16/2018 | <0.0002 | | | | | | | | |
| 10/17/2018 | | | <0.0002 | | | <0.0002 | | | |
| 2/20/2019 | | | | | | | | | <0.0002 |
| 2/21/2019 | | <0.0002 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | <0.0002 | | <0.0002 | | | | | | |
| 4/17/2019 | | | | <0.0002 | | <0.0002 | | <0.0002 | |
| 9/23/2019 | | | | | | | | <0.0002 | |
| 9/24/2019 | | | | <0.0002 | | <0.0002 | | | <0.0002 |
| 9/25/2019 | <0.0002 | <0.0002 | | | | | | | |
| 3/16/2020 | | | | | | | | <0.0002 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.0002 | | | <0.0002 | <0.0002 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <0.0002 | | | | <0.0002 | | | |
| 3/25/2020 | | | | | | | | | <0.0002 |
| 5/12/2020 | | | | | | | | <0.0002 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.0002 | | <0.0002 | <0.0002 | |
| 9/22/2020 | | | | | | <0.0002 | | | |
| 9/23/2020 | <0.0002 | <0.0002 | | <0.0002 | | | | | <0.0002 |
| 2/1/2021 | <0.0002 | <0.0002 | | | | | | | |
| 2/2/2021 | | | | | | | | <0.0002 | <0.0002 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | <0.0002 | | | | | | |
| 8/2/2016 | | <0.0002 | <0.0002 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.0002 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | <0.0002 | | <0.0002 | | | | |
| 10/24/2016 | <0.0002 | <0.0002 | | | | | |
| 10/25/2016 | | | <0.0002 | | | | |
| 12/13/2016 | <0.0002 | <0.0002 | | | | | |
| 12/14/2016 | | | <0.0002 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | <0.0002 | | | | | | |
| 2/8/2017 | | <0.0002 | <0.0002 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | <0.0002 | | <0.0002 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | <0.0002 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | <0.0002 | | | | |
| 2/21/2018 | <0.0002 | <0.0002 | | | | | |
| 5/15/2018 | | | <0.0002 | | | | |
| 5/16/2018 | <0.0002 | <0.0002 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.0002 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | <0.0002 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 9/23/2019 | | | | <0.0002 | | | |
| 9/24/2019 | <0.0002 | | <0.0002 | | | <0.0002 | |
| 9/25/2019 | | <0.0002 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.0002 | | | |
| 3/18/2020 | | | <0.0002 | | | <0.0002 | |
| 3/23/2020 | | | | <0.0002 | | | |
| 3/24/2020 | <0.0002 | | | | | | <0.0002 |
| 3/25/2020 | | <0.0002 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | <0.0002 | | | | | |
| 9/17/2020 | | | | <0.0002 | <0.0002 | <0.0002 | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | <0.0002 | <0.0002 | | | | | |
| 9/23/2020 | | | <0.0002 | <0.0002 | | | |
| 2/1/2021 | | <0.0002 | | | | | |
| 2/2/2021 | | | | | | <0.0002 | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | <0.0002 | | |
| 2/8/2021 | <0.0002 | | <0.0002 | | | | |
| 2/9/2021 | | | | <0.0002 | | | |
| 2/10/2021 | | | | | | | <0.0002 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | <0.0002 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | <0.0002 | |
| 8/4/2021 | | <0.0002 | <0.0002 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | <0.0002 | | | | | | |
| 8/11/2021 | | | | <0.0002 | | | |
| 8/12/2021 | | | | | | | <0.0002 |
| 2/8/2022 | | | <0.0002 | <0.0002 | | | |
| 2/14/2022 | | | | | <0.0002 | | |
| 2/15/2022 | | | | | | <0.0002 | |
| 2/16/2022 | | | | | | | <0.0002 |
| 2/22/2022 | <0.0002 | <0.0002 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.0002 | <0.0002 | | | | | |
| 3/18/2020 | | | | | <0.0002 | | |
| 3/24/2020 | | | <0.0002 | | | | <0.0002 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.0002 | | | | | | |
| 5/13/2020 | | <0.0002 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.0002 | | | | | | |
| 9/17/2020 | | <0.0002 | | | <0.0002 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | <0.0002 | <0.0002 | | | <0.0002 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | <0.0002 | | | |
| 2/3/2021 | | | | | | | <0.0002 |
| 2/4/2021 | <0.0002 | | | | | | |
| 2/8/2021 | | | | | <0.0002 | <0.0002 | |
| 2/9/2021 | | | <0.0002 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | <0.0002 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | <0.0002 | | | | | <0.0002 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | <0.0002 | | | |
| 8/4/2021 | | <0.0002 | <0.0002 | | | | <0.0002 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | <0.0002 | | | |
| 2/8/2022 | | | | | | <0.0002 | |
| 2/9/2022 | <0.0002 | | | | | | |
| 2/14/2022 | | <0.0002 | | | | | |
| 2/15/2022 | | | | <0.0002 | <0.0002 | | |
| 2/16/2022 | | | | | | | <0.0002 |
| 2/22/2022 | | | <0.0002 | | | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | <0.0002 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.0002 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | <0.0002 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | <0.0002 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.0002 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.0002 | <0.0002 | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | <0.0002 | | |
| 3/1/2022 | | <0.0002 | <0.0002 | <0.0002 | | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | <0.0002 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | <0.0002 |
| 2/28/2022 | | | | |
| 3/1/2022 | <0.0002 | <0.0002 | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 10.5 | | 33 | | 4.52 | |
| 8/2/2016 | | | 47.2 | | | | | | |
| 8/3/2016 | 36.1 | | | | | | | | |
| 9/19/2016 | | | | | | 31.7 | | 4.3 | |
| 9/20/2016 | 27 | | 46.3 | 14.7 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 4.02 | |
| 10/25/2016 | 26.1 | | 46.6 | 14.7 | | 32.2 | | | |
| 12/13/2016 | 29.4 | | 43.1 | | | 33.1 | | 5.5 | |
| 12/14/2016 | | | | 11.9 | | | | | |
| 2/6/2017 | | | | | | | | 3.79 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 31.9 | | 47.5 | 14.4 | | 32.7 | | | |
| 3/27/2017 | | | | | | | | 3.13 | |
| 3/28/2017 | | | | 12.9 | | | | | |
| 3/29/2017 | 31.8 | | 46.8 | | | 32.7 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 3.41 | |
| 4/26/2017 | 34.6 | | 48.1 | 10.4 | | 33.8 | | | |
| 6/5/2017 | | | | | | | | 3.32 | |
| 6/6/2017 | | | | 9.41 | | 32.2 | | | |
| 6/7/2017 | 33.4 | | 44.4 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 31.5 | | 42.9 | 6.89 | | 30.9 | | 3.52 | |
| 8/23/2017 | | | | | | | | | |
| 5/15/2018 | 34.8 | | 44.3 | 6.86 | | | | 4.53 | |
| 5/16/2018 | | | | | | 33.5 | | | |
| 10/15/2018 | | | | 6.28 | | | | 3.38 | |
| 10/16/2018 | 35.6 | | | | | | | | |
| 10/17/2018 | | | 41.8 | | | 32 | | | |
| 2/20/2019 | | | | | | | | | 30.6 |
| 2/21/2019 | | 52.3 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | 38.3 | | 38.6 | | | | | | |
| 4/17/2019 | | | | 8.53 | | 32.3 | | 3.86 | |
| 9/23/2019 | | | | | | | | 5.43 | |
| 9/24/2019 | | | | 3.26 | | 34.3 | | | 29.7 |
| 9/25/2019 | 48.1 | 33.4 | | | | | | | |
| 3/16/2020 | | | | | | | | 3 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 44 | | | 5.25 | 8.01 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 48.9 | | | | 34.1 | | | |
| 3/25/2020 | | | | | | | | | 31.1 |
| 5/12/2020 | | | | | | | | 2.95 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 8.2 | | 10.9 | 3.73 | |
| 9/22/2020 | | | | | | 32 | | | |
| 9/23/2020 | 45.9 | 44.8 | | 3.83 | | | | | 29.3 |
| 2/1/2021 | 45.8 | 48.9 | | | | | | | |
| 2/2/2021 | | | | | | | | 3.3 | 31.8 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 39.6 | | | | | | |
| 8/2/2016 | | 2.25 | 5.29 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | 0.724 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 38.1 | | 4.51 | | | | |
| 10/24/2016 | 34.7 | 0.635 | | | | | |
| 10/25/2016 | | | 4.92 | | | | |
| 12/13/2016 | 44 | 0.714 | | | | | |
| 12/14/2016 | | | 3.5 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 39 | | | | | | |
| 2/8/2017 | | 0.722 | 3.75 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 43.9 | | 3.63 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 0.686 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 42.8 | 0.646 | 3.3 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 43.1 | 0.569 | 3.24 | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | 0.634 | | | | | |
| 8/22/2017 | 40.7 | | | | | | |
| 8/23/2017 | | | 6.6 | | | | |
| 5/15/2018 | | | 7.57 | | | | |
| 5/16/2018 | 45.3 | 0.588 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 40.9 | 0.714 | 4.4 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 64.5 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 46 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 38.4 | 0.511 | 2.88 | | | | |
| 9/23/2019 | | | | 80.6 | | | |
| 9/24/2019 | 48.4 | | 2.47 | | | 46.5 | |
| 9/25/2019 | | 0.581 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 79.8 | | | |
| 3/18/2020 | | | 2.35 | | | 44 | |
| 3/23/2020 | | | | 110 | | | |
| 3/24/2020 | 41.7 | | | | | | 2.42 |
| 3/25/2020 | | 0.518 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 0.493 (J) | | | | | |
| 9/17/2020 | | | | 87.2 | | 45.5 | 1.99 |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 46.9 | 0.503 | | | | | |
| 9/23/2020 | | | 1.96 | 119 | | | |
| 2/1/2021 | | 0.517 | | | | | |
| 2/2/2021 | | | | | | 42.4 | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 75.6 | | |
| 2/8/2021 | 56.8 | | 1.95 | | | | |
| 2/9/2021 | | | | 73.8 | | | |
| 2/10/2021 | | | | | | | 2.11 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 75.5 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 43.4 | |
| 8/4/2021 | | 0.564 | 1.76 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 54.8 | | | | | | |
| 8/11/2021 | | | | 13.8 | | | |
| 8/12/2021 | | | | | | | 1.79 |
| 2/8/2022 | | | 1.98 | 37.2 | | | |
| 2/14/2022 | | | | | 74.4 | | |
| 2/15/2022 | | | | | | 42.4 | |
| 2/16/2022 | | | | | | | 1.82 |
| 2/22/2022 | 54.6 | 0.413 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 5.27 | 3.45 | | | | | |
| 3/18/2020 | | | | | 56.6 | | |
| 3/24/2020 | | | 9.33 | | | | 149 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | 3.04 | | | | | | |
| 5/13/2020 | | 2.93 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | 3.04 | | | | | | |
| 9/17/2020 | | 4.12 | | | 61.1 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 9.56 | 205 | | | 142 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 199 | | | |
| 2/3/2021 | | | | | | | 134 |
| 2/4/2021 | 3.3 | | | | | | |
| 2/8/2021 | | | | | 60.8 | 49.8 | |
| 2/9/2021 | | | 10.6 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 3.16 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 2.51 | | | | | 45.1 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 57.1 | | |
| 8/4/2021 | | 5.78 | 12.2 | | | | 133 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 197 | | | |
| 2/8/2022 | | | | | | 30.6 | |
| 2/9/2022 | 2.11 | | | | | | |
| 2/14/2022 | | 4.69 | | | | | |
| 2/15/2022 | | | | 203 | 57.6 | | |
| 2/16/2022 | | | | | | | 138 |
| 2/22/2022 | | | 10.8 | | | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 19.3 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 12.6 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 16.5 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 16 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 18.1 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 20.3 | 5.8 | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 33.7 | | |
| 3/1/2022 | | 39.8 | 45.3 | 31.6 | | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 69 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 1.2 |
| 2/28/2022 | | | | |
| 3/1/2022 | 97.3 | 54 | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 15.6 | | 2.6 | | 6.47 | |
| 8/2/2016 | | | 2.91 | | | | | | |
| 8/3/2016 | 14.5 | | | | | | | | |
| 9/19/2016 | | | | | | 2.51 | | 7.78 | |
| 9/20/2016 | 12.9 | | 2.94 | 8.6 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 7.29 | |
| 10/25/2016 | 12.2 | | 2.94 | 7.96 | | 2.53 | | | |
| 12/13/2016 | 10.4 | | 2.93 | | | 2.53 | | 12.2 | |
| 12/14/2016 | | | | 6.94 | | | | | |
| 2/6/2017 | | | | | | | | 7.68 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 8.77 | | 2.85 | 4.96 | | 2.5 | | | |
| 3/27/2017 | | | | | | | | 9 | |
| 3/28/2017 | | | | 5.2 | | | | | |
| 3/29/2017 | 10 | | 3.4 | | | 2.9 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 10 | |
| 4/26/2017 | 9.8 | | 3.7 | 6 | | 3.2 | | | |
| 6/5/2017 | | | | | | | | 10 | |
| 6/6/2017 | | | | 4.9 | | 2.6 | | | |
| 6/7/2017 | 8 | | 3.3 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 6.5 | | 3.4 | 5.3 | | 2.9 | | 12 | |
| 8/23/2017 | | | | | | | | | |
| 5/15/2018 | 4.4 | | 3.2 | 3.8 | | | | 13 | |
| 5/16/2018 | | | | | | 3 | | | |
| 10/15/2018 | | | | 6.6 | | | | 10 | |
| 10/16/2018 | 3.1 | | | | | | | | |
| 10/17/2018 | | | 2.3 | | | 2.2 | | | |
| 2/20/2019 | | | | | | | | | 3.56 |
| 2/21/2019 | | 3.77 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | 3.22 | | 3.23 | | | | | | |
| 4/17/2019 | | | | 5.2 | | 2.82 | | 12.7 | |
| 9/23/2019 | | | | | | | | 16.2 | |
| 9/24/2019 | | | | 5.96 | | 2.9 | | | 3.69 |
| 9/25/2019 | 6.68 | 3.84 | | | | | | | |
| 3/16/2020 | | | | | | | | 9.95 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 4.22 | | | 8 | 108 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 4.46 | | | | 2.88 | | | |
| 3/25/2020 | | | | | | | | | 3.72 |
| 5/12/2020 | | | | | | | | 9.16 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 171 | | 5.42 | 13.8 | |
| 9/22/2020 | | | | | | 2.94 | | | |
| 9/23/2020 | 3.15 | 4.63 | | 6 | | | | | 3.74 |
| 2/1/2021 | 3.32 | 3.86 | | | | | | | |
| 2/2/2021 | | | | | | | | 10.2 | 3.49 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 6.67 | | | | | | |
| 8/2/2016 | | 6.15 | 28.1 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | 5.98 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 6.54 | | 26.8 | | | | |
| 10/24/2016 | 8.77 | 5.93 | | | | | |
| 10/25/2016 | | | 26 | | | | |
| 12/13/2016 | 6.16 | 5.7 | | | | | |
| 12/14/2016 | | | 25.3 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 7.57 | | | | | | |
| 2/8/2017 | | 8.44 | 23.8 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 5.9 | | 28 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 11 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 6.5 | 10 | 27 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 5.5 | 9.6 | 28 | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | 12 | | | | | |
| 8/22/2017 | 6.5 | | | | | | |
| 8/23/2017 | | | 29 | | | | |
| 5/15/2018 | | | 27 | | | | |
| 5/16/2018 | 6.6 | 12 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 6.2 | 20 | 31 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 2.58 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 3.28 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 7.27 | 9.5 | 32.3 | | | | |
| 9/23/2019 | | | | 2.26 | | | |
| 9/24/2019 | 5.83 | | 36 | | | 2.89 | |
| 9/25/2019 | | 12 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 2.62 | | | |
| 3/18/2020 | | | 49.5 | | | 3.5 | |
| 3/23/2020 | | | | 981 | | | |
| 3/24/2020 | 6.29 | | | | | | 38 |
| 3/25/2020 | | 9.7 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 8.25 | | | | | |
| 9/17/2020 | | | | 1.92 | | 3.19 | 38.3 |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 6.6 | 6.33 | | | | | |
| 9/23/2020 | | | 56.9 | 1100 | | | |
| 2/1/2021 | | 8.42 | | | | | |
| 2/2/2021 | | | | | | 3.06 | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 2.07 | | |
| 2/8/2021 | 6 | | 39.8 | | | | |
| 2/9/2021 | | | | 592 | | | |
| 2/10/2021 | | | | | | | 43.7 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 2.48 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 2.94 | |
| 8/4/2021 | | 7.25 | 54.8 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 4.83 | | | | | | |
| 8/11/2021 | | | | 162 | | | |
| 8/12/2021 | | | | | | | 36.3 |
| 2/8/2022 | | | 41.4 | 432 | | | |
| 2/14/2022 | | | | | 12.8 | | |
| 2/15/2022 | | | | | | 3.18 | |
| 2/16/2022 | | | | | | | 34.3 |
| 2/22/2022 | 4.59 | 6.05 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 23.9 | 29.4 | | | | | |
| 3/18/2020 | | | | | 6.02 | | |
| 3/24/2020 | | | 12.6 | | | | 3.35 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | 14.5 | | | | | | |
| 5/13/2020 | | 27.2 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | 20.9 | | | | | | |
| 9/17/2020 | | 38.5 | | | 6.63 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 24.8 | 30.4 | | | 7.07 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 36.8 | | | |
| 2/3/2021 | | | | | | | 10.1 |
| 2/4/2021 | 23.9 | | | | | | |
| 2/8/2021 | | | | | 6.44 | 9.18 | |
| 2/9/2021 | | | 28.1 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 24.3 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 16.7 | | | | | 8.34 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 6.07 | | |
| 8/4/2021 | | 59.8 | 33.1 | | | | 9.75 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 28 | | | |
| 2/8/2022 | | | | | | 6.72 | |
| 2/9/2022 | 17.5 | | | | | | |
| 2/14/2022 | | 77.7 | | | | | |
| 2/15/2022 | | | | 18 | 6.67 | | |
| 2/16/2022 | | | | | | | 8.61 |
| 2/22/2022 | | | 31 | | | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 2.53 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 2.46 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 2.99 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 2.67 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 3.1 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 3.52 | 15.3 | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 38.1 | | |
| 3/1/2022 | | 37.5 | 5.08 | 19.2 | | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 5.32 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 43.9 |
| 2/28/2022 | | | | |
| 3/1/2022 | 46.4 | 65.9 | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 0.00209 (J) | | <0.00102 | | <0.00102 | |
| 8/2/2016 | | | <0.00102 | | | | | | |
| 8/3/2016 | <0.00102 | | | | | | | | |
| 9/19/2016 | | | | | | <0.00102 | | <0.00102 | |
| 9/20/2016 | <0.00102 | | <0.00102 | <0.00102 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | <0.00102 | |
| 10/25/2016 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 12/13/2016 | <0.00102 | | <0.00102 | | | <0.00102 | | <0.00102 | |
| 12/14/2016 | | | | <0.00102 | | | | | |
| 2/6/2017 | | | | | | | | <0.00102 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 3/27/2017 | | | | | | | | <0.00102 | |
| 3/28/2017 | | | | <0.00102 | | | | | |
| 3/29/2017 | <0.00102 | | <0.00102 | | | <0.00102 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | <0.00102 | |
| 4/26/2017 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 6/5/2017 | | | | | | | | <0.00102 | |
| 6/6/2017 | | | | <0.00102 | | <0.00102 | | | |
| 6/7/2017 | <0.00102 | | <0.00102 | | | | | | |
| 2/19/2018 | | | | | | | | <0.00102 | |
| 2/20/2018 | <0.00102 | | <0.00102 | <0.00102 | | | | | |
| 2/21/2018 | | | | | | <0.00102 | | | |
| 5/15/2018 | <0.00102 | | <0.00102 | <0.00102 | | | | <0.00102 | |
| 5/16/2018 | | | | | | <0.00102 | | | |
| 10/15/2018 | | | | <0.00102 | | | | <0.00102 | |
| 10/16/2018 | <0.00102 | | | | | | | | |
| 10/17/2018 | | | <0.00102 | | | <0.00102 | | | |
| 2/20/2019 | | | | | | | | | <0.00102 |
| 2/21/2019 | | <0.00102 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | <0.00102 | | <0.00102 | | | | | | |
| 4/17/2019 | | | | <0.00102 | | <0.00102 | | <0.00102 | |
| 9/23/2019 | | | | | | | | <0.00102 | |
| 9/24/2019 | | | | <0.00102 | | <0.00102 | | | 0.00405 (J) |
| 9/25/2019 | <0.00102 | 0.00202 (J) | | | | | | | |
| 3/16/2020 | | | | | | | | <0.00102 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.00102 | | | <0.00102 | 0.00716 (J) | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00774 (J) | | | | <0.00102 | | | |
| 3/25/2020 | | | | | | | | | <0.00102 |
| 5/12/2020 | | | | | | | | <0.00102 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.00239 (J) | | <0.00102 | <0.00102 | |
| 9/22/2020 | | | | | | <0.00102 | | | |
| 9/23/2020 | <0.00102 | 0.00362 (J) | | <0.00102 | | | | | <0.00102 |
| 2/1/2021 | <0.00102 | 0.00311 | | | | | | | |
| 2/2/2021 | | | | | | | 0.00255 | | 0.000313 (J) |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|--------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | <0.00102 | | | | | | |
| 8/2/2016 | | <0.00102 | <0.00102 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.00102 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | <0.00102 | | | | 0.00233 (J) | | |
| 10/24/2016 | <0.00102 | <0.00102 | | | | | |
| 10/25/2016 | | | | | 0.00204 (J) | | |
| 12/13/2016 | <0.00102 | <0.00102 | | | | | |
| 12/14/2016 | | | | | <0.00102 | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | <0.00102 | | | | | | |
| 2/8/2017 | | <0.00102 | <0.00102 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | <0.00102 | | | | <0.00102 | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | <0.00102 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | | | 0.00219 (J) | | |
| 2/21/2018 | <0.00102 | <0.00102 | | | | | |
| 5/15/2018 | | | | | <0.00102 | | |
| 5/16/2018 | <0.00102 | <0.00102 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | | <0.00102 | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | <0.00102 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 9/23/2019 | | | | | <0.00102 | | |
| 9/24/2019 | <0.00102 | | <0.00102 | | | <0.00102 | |
| 9/25/2019 | | <0.00102 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | | <0.00102 | | |
| 3/18/2020 | | | <0.00102 | | | <0.00102 | |
| 3/23/2020 | | | | <0.00102 | | | |
| 3/24/2020 | <0.00102 | | | | | | <0.00102 |
| 3/25/2020 | | <0.00102 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | <0.00102 | | | | | |
| 9/17/2020 | | | | | <0.00102 | <0.00102 | <0.00102 |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | <0.00102 | <0.00102 | | | | | |
| 9/23/2020 | | | <0.00102 | <0.00102 | | | |
| 2/1/2021 | | 0.000505 (J) | | | | | |
| 2/2/2021 | | | | | | 0.000382 (J) | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|--------------|-------------|--------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 0.000222 (J) | | |
| 2/8/2021 | 0.000258 (J) | | 0.000705 (J) | | | | |
| 2/9/2021 | | | | 0.000218 (J) | | | |
| 2/10/2021 | | | | | | | <0.00102 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | <0.00102 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 0.00028 (J) | |
| 8/4/2021 | | 0.00085 (J) | 0.00042 (J) | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 0.00032 (J) | | | | | | |
| 8/11/2021 | | | | 0.00134 | | | |
| 8/12/2021 | | | | | | | 0.00035 (J) |
| 2/8/2022 | | | 0.0004 (J) | 0.00041 (J) | | | |
| 2/14/2022 | | | | | 0.00023 (J) | | |
| 2/15/2022 | | | | | | 0.00029 (J) | |
| 2/16/2022 | | | | | | | 0.00062 (J) |
| 2/22/2022 | <0.00102 | 0.00044 (J) | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.00102 | <0.00102 | | | | | |
| 3/18/2020 | | | | | <0.00102 | | |
| 3/24/2020 | | | <0.00102 | | | | <0.00102 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.00102 | | | | | | |
| 5/13/2020 | | <0.00102 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.00102 | | | | | | |
| 9/17/2020 | | <0.00102 | | | <0.00102 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | <0.00102 | <0.00102 | | | <0.00102 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 0.000222 (J) | | | |
| 2/3/2021 | | | | | | | 0.000298 (J) |
| 2/4/2021 | 0.000211 (J) | | | | | | |
| 2/8/2021 | | | | | 0.000235 (J) | <0.00102 | |
| 2/9/2021 | | | <0.00102 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 0.000271 (J) | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 0.00041 (J) | | | | | 0.00031 (J) | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.00025 (J) | | |
| 8/4/2021 | | 0.00032 (J) | <0.00102 | | | | 0.00026 (J) |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 0.00032 (J) | | | |
| 2/8/2022 | | | | | | 0.00035 (J) | |
| 2/9/2022 | 0.00029 (J) | | | | | | |
| 2/14/2022 | | <0.00102 | | | | | |
| 2/15/2022 | | | | <0.00102 | 0.00026 (J) | | |
| 2/16/2022 | | | | | | | <0.00102 |
| 2/22/2022 | | | <0.00102 | | | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | <0.00102 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.00102 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | <0.00102 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 0.00024 (J) | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.00022 (J) | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.00022 (J) | 0.00052 (J) | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 0.00062 (J) | | |
| 3/1/2022 | | 0.00024 (J) | 0.00026 (J) | 0.00023 (J) | | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 0.00026 (J) | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | <0.00102 |
| 2/28/2022 | | | | |
| 3/1/2022 | 0.00035 (J) | 0.00027 (J) | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | <0.0002 | | <0.0002 | | <0.0002 | |
| 8/2/2016 | | | <0.0002 | | | | | | |
| 8/3/2016 | <0.0002 | | | | | | | | |
| 9/19/2016 | | | | | | <0.0002 | | <0.0002 | |
| 9/20/2016 | <0.0002 | | <0.0002 | <0.0002 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | <0.0002 | |
| 10/25/2016 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 12/13/2016 | <0.0002 | | <0.0002 | | | <0.0002 | | <0.0002 | |
| 12/14/2016 | | | | <0.0002 | | | | | |
| 2/6/2017 | | | | | | | | <0.0002 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 3/27/2017 | | | | | | | | <0.0002 | |
| 3/28/2017 | | | | <0.0002 | | | | | |
| 3/29/2017 | <0.0002 | | <0.0002 | | | <0.0002 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | <0.0002 | |
| 4/26/2017 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 6/5/2017 | | | | | | | | <0.0002 | |
| 6/6/2017 | | | | <0.0002 | | <0.0002 | | | |
| 6/7/2017 | <0.0002 | | <0.0002 | | | | | | |
| 2/19/2018 | | | | | | | | <0.0002 | |
| 2/20/2018 | <0.0002 | | <0.0002 | <0.0002 | | | | | |
| 2/21/2018 | | | | | | <0.0002 | | | |
| 5/15/2018 | <0.0002 | | <0.0002 | <0.0002 | | | | <0.0002 | |
| 5/16/2018 | | | | | | <0.0002 | | | |
| 10/15/2018 | | | | <0.0002 | | | | <0.0002 | |
| 10/16/2018 | <0.0002 | | | | | | | | |
| 10/17/2018 | | | <0.0002 | | | <0.0002 | | | |
| 2/20/2019 | | | | | | | | | <0.0002 |
| 2/21/2019 | | <0.0002 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | <0.0002 | | <0.0002 | | | | | | |
| 4/17/2019 | | | | <0.0002 | | <0.0002 | | <0.0002 | |
| 9/23/2019 | | | | | | | | <0.0002 | |
| 9/24/2019 | | | | <0.0002 | | <0.0002 | | | <0.0002 |
| 9/25/2019 | <0.0002 | <0.0002 | | | | | | | |
| 3/16/2020 | | | | | | | | <0.0002 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.0002 | | | <0.0002 | <0.0002 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00277 (J) | | | | <0.0002 | | | |
| 3/25/2020 | | | | | | | | | <0.0002 |
| 5/12/2020 | | | | | | | | <0.0002 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.0002 | | <0.0002 | <0.0002 | |
| 9/22/2020 | | | | | | <0.0002 | | | |
| 9/23/2020 | <0.0002 | <0.0002 | | <0.0002 | | | | | <0.0002 |
| 2/1/2021 | <0.0002 | 0.00129 | | | | | | | |
| 2/2/2021 | | | | | | | 0.000102 (J) | | <0.0002 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | <0.0002 | | | | | | |
| 8/2/2016 | | <0.0002 | <0.0002 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.0002 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | <0.0002 | | <0.0002 | | | | |
| 10/24/2016 | <0.0002 | <0.0002 | | | | | |
| 10/25/2016 | | | <0.0002 | | | | |
| 12/13/2016 | <0.0002 | <0.0002 | | | | | |
| 12/14/2016 | | | <0.0002 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | <0.0002 | | | | | | |
| 2/8/2017 | | <0.0002 | <0.0002 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | <0.0002 | | <0.0002 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | <0.0002 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | <0.0002 | | | | |
| 2/21/2018 | <0.0002 | <0.0002 | | | | | |
| 5/15/2018 | | | <0.0002 | | | | |
| 5/16/2018 | <0.0002 | <0.0002 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.0002 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | <0.0002 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 9/23/2019 | | | | <0.0002 | | | |
| 9/24/2019 | <0.0002 | | <0.0002 | | | <0.0002 | |
| 9/25/2019 | | <0.0002 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.0002 | | | |
| 3/18/2020 | | | <0.0002 | | | <0.0002 | |
| 3/23/2020 | | | | <0.0002 | | | |
| 3/24/2020 | <0.0002 | | | | | | <0.0002 |
| 3/25/2020 | | <0.0002 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | <0.0002 | | | | | |
| 9/17/2020 | | | | <0.0002 | <0.0002 | <0.0002 | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | <0.0002 | <0.0002 | | | | | |
| 9/23/2020 | | | <0.0002 | <0.0002 | | | |
| 2/1/2021 | | <0.0002 | | | | | |
| 2/2/2021 | | | | | | 0.000192 (J) | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 0.000512 | | |
| 2/8/2021 | <0.0002 | | <0.0002 | | | | |
| 2/9/2021 | | | | <0.0002 | | | |
| 2/10/2021 | | | | | | | <0.0002 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 0.00049 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 0.00024 | |
| 8/4/2021 | | <0.0002 | <0.0002 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | <0.0002 | | | | | | |
| 8/11/2021 | | | | <0.0002 | | | |
| 8/12/2021 | | | | | | | <0.0002 |
| 2/8/2022 | | | <0.0002 | <0.0002 | | | |
| 2/14/2022 | | | | | 0.00052 | | |
| 2/15/2022 | | | | | | 0.00023 | |
| 2/16/2022 | | | | | | | 0.00011 (J) |
| 2/22/2022 | <0.0002 | <0.0002 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.0002 | <0.0002 | | | | | |
| 3/18/2020 | | | | | <0.0002 | | |
| 3/24/2020 | | | <0.0002 | | | | 0.00218 (J) |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.0002 | | | | | | |
| 5/13/2020 | | <0.0002 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.0002 | | | | | | |
| 9/17/2020 | | <0.0002 | | | <0.0002 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | <0.0002 | 0.0027 (J) | | | <0.0002 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 0.002 | | | |
| 2/3/2021 | | | | | | | 0.000752 |
| 2/4/2021 | <0.0002 | | | | | | |
| 2/8/2021 | | | | | 0.000585 | 0.00175 | |
| 2/9/2021 | | | <0.0002 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 0.000148 (J) | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | <0.0002 | | | | | 0.00029 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.00085 | | |
| 8/4/2021 | | <0.0002 | <0.0002 | | | | 0.00062 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 0.0011 | | | |
| 2/8/2022 | | | | | | 0.00378 | |
| 2/9/2022 | <0.0002 | | | | | | |
| 2/14/2022 | | <0.0002 | | | | | |
| 2/15/2022 | | | | 0.00052 | 0.00102 | | |
| 2/16/2022 | | | | | | | 0.00045 |
| 2/22/2022 | | | <0.0002 | | | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | <0.0002 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.0002 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | <0.0002 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | <0.0002 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.0002 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.00066 | 9E-05 (J) | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 0.00015 (J) | | |
| 3/1/2022 | | 0.00014 (J) | 0.00011 (J) | <0.0002 | | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 0.00014 (J) | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | <0.0002 |
| 2/28/2022 | | | | |
| 3/1/2022 | <0.0002 | 9E-05 (J) | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2022 2:08 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 0.682 | | 0.363 (U) | | 0.508 (U) | |
| 8/2/2016 | | | 0.0177 (U) | | | | | | |
| 8/3/2016 | 1.08 | | | | | | | | |
| 9/19/2016 | | | | | | 0.435 (U) | | 0.216 (U) | |
| 9/20/2016 | 0.848 | | 0.725 | 1.2 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 0.694 | |
| 10/25/2016 | 0.92 | | 0.494 (U) | 0.194 (U) | | 0.725 | | | |
| 12/13/2016 | 0.974 | | 0.39 (U) | | | 0.309 (U) | | 0.614 | |
| 12/14/2016 | | | | 0.688 | | | | | |
| 2/6/2017 | | | | | | | | -0.0283 (U) | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 0.535 | | 0.455 (U) | 0.254 (U) | | 0.00772 (U) | | | |
| 3/27/2017 | | | | | | | | 0.0736 (U) | |
| 3/28/2017 | | | | -0.0411 (U) | | | | | |
| 3/29/2017 | 0.194 (U) | | 0.251 (U) | | | 0.36 (U) | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 0.114 (U) | |
| 4/26/2017 | 0.384 (U) | | 0.0762 (U) | 0.207 (U) | | 0.0175 (U) | | | |
| 6/5/2017 | | | | | | | | 0.476 | |
| 6/6/2017 | | | | 0.0618 (U) | | 0.464 | | | |
| 6/7/2017 | 0.729 | | 0.32 (U) | | | | | | |
| 2/19/2018 | | | | | | | | 0.322 (U) | |
| 2/20/2018 | 0.242 (U) | | 0.465 | 0.0898 (U) | | | | | |
| 2/21/2018 | | | | | | 0.44 | | | |
| 5/15/2018 | 0.433 (U) | | 0.0571 (U) | 0.829 | | | | 0.526 | |
| 5/16/2018 | | | | | | 0.209 (U) | | | |
| 10/15/2018 | | | | 0.708 | | | | 0.199 (U) | |
| 10/16/2018 | 0.421 (U) | | | | | | | | |
| 10/17/2018 | | | 0.482 | | | 0.368 (U) | | | |
| 2/20/2019 | | | | | | | | | 0.398 (U) |
| 2/21/2019 | | 0.296 (U) | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | 0.184 (U) | | 0.506 (U) | | | | | | |
| 4/17/2019 | | | | -0.11 (U) | | 0.121 (U) | | 0.00935 (U) | |
| 9/23/2019 | | | | | | | | 0.983 | |
| 9/24/2019 | | | | 0.951 | | -0.033 (U) | | | 0.373 (U) |
| 9/25/2019 | 0.442 (U) | 1.03 | | | | | | | |
| 3/16/2020 | | | | | | | | 0.185 (U) | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.605 | | | 0.939 | 0.566 (U) | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.877 (U) | | | | 0.636 | | | |
| 3/25/2020 | | | | | | | | | 0.0656 (U) |
| 5/12/2020 | | | | | | | | 0.0339 (U) | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.494 (U) | | 0.47 (U) | 0.651 (U) | |
| 9/22/2020 | | | | | | 0.59 (U) | | | |
| 9/23/2020 | 0.811 (U) | 1.38 | | 0.547 (U) | | | | | 0.542 (U) |
| 2/1/2021 | 0.946 (U) | 0.944 (U) | | | | | | | |
| 2/2/2021 | | | | | | | 2.53 | | 0.448 (U) |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2022 2:08 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 0.697 (U) | | | | | | |
| 8/2/2016 | | 0.274 (U) | 0.665 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | 0.0478 (U) | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 1.79 | | 0.532 (U) | | | | |
| 10/24/2016 | 1.53 | 1.41 | | | | | |
| 10/25/2016 | | | 0.601 | | | | |
| 12/13/2016 | 0.758 | 0.733 | | | | | |
| 12/14/2016 | | | 1.02 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 0.473 | | | | | | |
| 2/8/2017 | | 0.0206 (U) | -0.074 (U) | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 0.0705 (U) | | 0.3 (U) | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 0.122 (U) | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.238 (U) | 0.397 (U) | 0.982 (U) | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.909 | 0.0873 (U) | 0.312 (U) | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | 0.321 (U) | | | | |
| 2/21/2018 | 0.349 (U) | 0.562 | | | | | |
| 5/15/2018 | | | 1.7 | | | | |
| 5/16/2018 | 1.12 | 1.44 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.856 | 0.736 | 0.586 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.0759 (U) | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 0.9 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.507 (U) | 0.0905 (U) | 0.47 (U) | | | | |
| 9/23/2019 | | | | 0.00709 (U) | | | |
| 9/24/2019 | 0.664 | | 1.08 | | | 1.23 | |
| 9/25/2019 | | 0.537 (U) | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 0.989 | | | |
| 3/18/2020 | | | 0.732 | | | 0.788 | |
| 3/23/2020 | | | | 0.982 | | | |
| 3/24/2020 | 1.07 | | | | | | -0.00194 (U) |
| 3/25/2020 | | 4 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 0.289 (U) | | | | | |
| 9/17/2020 | | | | 0.66 (U) | | 0.298 (U) | -0.369 (U) |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 2.09 | 0.712 | | | | | |
| 9/23/2020 | | | 0.468 (U) | 0.563 (U) | | | |
| 2/1/2021 | | 0.518 (U) | | | | | |
| 2/2/2021 | | | | | | 1.03 (U) | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2022 2:08 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 0.767 (U) | | |
| 2/8/2021 | 0.947 (U) | | 0.667 (U) | | | | |
| 2/9/2021 | | | | 0.867 (U) | | | |
| 2/10/2021 | | | | | | | 0.422 (U) |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 0.124 (U) | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 1.3 (U) | |
| 8/4/2021 | | 0.502 (U) | 0.337 (U) | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 1.42 (U) | | | | | | |
| 8/11/2021 | | | | 0.782 (U) | | | |
| 8/12/2021 | | | | | | | 0.129 (U) |
| 2/8/2022 | | | 0.529 (U) | 0.467 (U) | | | |
| 2/14/2022 | | | | | 0.153 (U) | | |
| 2/15/2022 | | | | | | 1.16 | |
| 2/16/2022 | | | | | | | 0.763 (U) |
| 2/22/2022 | 0.639 (U) | 0.21 (U) | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2022 2:08 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 7.32 | 4.33 | | | | | |
| 3/18/2020 | | | | | 0.64 | | |
| 3/24/2020 | | | 0.862 | | | | 0.0821 (U) |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | 1.02 | | | | | | |
| 5/13/2020 | | -0.225 (U) | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | 0.435 (U) | | | | | | |
| 9/17/2020 | | -0.125 (U) | | | 0.14 (U) | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 1.1 | 1.91 | | | 0.36 (U) |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 0.369 (U) | | | |
| 2/3/2021 | | | | | | | 0.475 (U) |
| 2/4/2021 | 0.527 (U) | | | | | | |
| 2/8/2021 | | | | | 0.409 (U) | 0.49 (U) | |
| 2/9/2021 | | | 0.746 (U) | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 0.322 (U) | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 0.0525 (U) | | | | | 0.759 (U) | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.453 (U) | | |
| 8/4/2021 | | 1.13 | 0.844 (U) | | | | 0.186 (U) |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 0.91 (U) | | | |
| 2/8/2022 | | | | | | 0.267 (U) | |
| 2/9/2022 | 0.23 (U) | | | | | | |
| 2/14/2022 | | 7.37 | | | | | |
| 2/15/2022 | | | | 0.64 (U) | 0.256 (U) | | |
| 2/16/2022 | | | | | | | 0.275 (U) |
| 2/22/2022 | | | 0.341 (U) | | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2022 2:08 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2022 2:08 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 0.878 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.896 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 1.01 (U) | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 0.195 (U) | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.67 (U) | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.961 (U) | 0.187 (U) | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2022 2:08 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 0.801 (U) | | |
| 3/1/2022 | | 1.05 (U) | 0.757 (U) | 0.656 (U) | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 0.775 (U) | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 0.0974 (U) |
| 2/28/2022 | | | | |
| 3/1/2022 | 0.799 (U) | 0.663 (U) | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 1.16 | | 0.117 (J) | | 0.214 (J) | |
| 8/2/2016 | | | 0.161 (J) | | | | | | |
| 8/3/2016 | 0.656 | | | | | | | | |
| 9/19/2016 | | | | | | 0.078 (J) | | 0.151 (J) | |
| 9/20/2016 | 0.691 | | 0.122 (J) | 0.7 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 0.086 (J) | |
| 10/25/2016 | 0.588 | | 0.058 (J) | 0.544 | | 0.018 (J) | | | |
| 12/13/2016 | 0.545 | | 0.072 (J) | | | 0.035 (J) | | 0.14 (J) | |
| 12/14/2016 | | | | 0.51 | | | | | |
| 2/6/2017 | | | | | | | | 0.2 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 0.79 | | 0.16 | 0.56 | | 0.1 | | | |
| 3/27/2017 | | | | | | | | 0.21 | |
| 3/28/2017 | | | | 0.59 | | | | | |
| 3/29/2017 | 0.51 | | 0.14 | | | 0.08 (J) | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 0.2 | |
| 4/26/2017 | 0.49 | | 0.16 | 0.72 | | 0.11 | | | |
| 6/5/2017 | | | | | | | | 0.2 | |
| 6/6/2017 | | | | 0.65 | | 0.11 | | | |
| 6/7/2017 | 0.43 | | 0.15 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 0.41 | | 0.18 | 0.9 | | 0.11 | | 0.24 | |
| 8/23/2017 | | | | | | | | | |
| 2/19/2018 | | | | | | | | 0.34 | |
| 2/20/2018 | 0.27 | | 0.17 | 0.6 | | | | | |
| 2/21/2018 | | | | | | 0.11 | | | |
| 5/15/2018 | 0.23 | | 0.17 | 0.57 | | | | 0.27 | |
| 5/16/2018 | | | | | | 0.12 | | | |
| 10/15/2018 | | | | 0.77 | | | | 0.23 | |
| 10/16/2018 | 0.23 | | | | | | | | |
| 10/17/2018 | | | 0.19 | | | 0.13 | | | |
| 2/20/2019 | | | | | | | | | 0.239 |
| 2/21/2019 | | 0.205 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | 0.188 | | 0.197 | | | | | | |
| 4/17/2019 | | | | 0.463 | | 0.171 | | 0.354 | |
| 9/23/2019 | | | | | | | | 0.351 | |
| 9/24/2019 | | | | 0.628 | | 0.124 | | | 0.245 |
| 9/25/2019 | 0.168 | 0.185 | | | | | | | |
| 3/16/2020 | | | | | | | | 0.261 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.122 | | | 0.647 | 0.243 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.155 | | | | 0.109 | | | |
| 3/25/2020 | | | | | | | | | 0.243 |
| 5/12/2020 | | | | | | | | 0.263 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.372 | | 0.572 | 0.371 | |
| 9/22/2020 | | | | | | 0.123 | | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 0.385 | | | | | | |
| 8/2/2016 | | 1.76 | 0.282 (J) | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | 1.55 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 0.303 | | 0.231 (J) | | | | |
| 10/24/2016 | 0.24 (J) | 1.29 | | | | | |
| 10/25/2016 | | | 0.137 (J) | | | | |
| 12/13/2016 | 0.188 (J) | 1.19 | | | | | |
| 12/14/2016 | | | 0.131 (J) | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 0.38 | | | | | | |
| 2/8/2017 | | 1.6 | 0.25 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 0.32 | | 0.27 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 1.5 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.31 | 1.4 | 0.24 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.31 | 1.3 | 0.25 | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | 1.4 | | | | | |
| 8/22/2017 | 0.35 | | | | | | |
| 8/23/2017 | | | 0.3 | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | 0.23 | | | | |
| 2/21/2018 | 0.39 | 1.1 | | | | | |
| 5/15/2018 | | | 0.24 | | | | |
| 5/16/2018 | 0.36 | 1.1 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.37 | 1 | 0.25 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.188 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 0.19 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.27 | 0.868 | 0.272 | | | | |
| 9/23/2019 | | | | 0.144 | | | |
| 9/24/2019 | 0.307 | | 0.209 | | | 0.201 | |
| 9/25/2019 | | 0.86 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 0.241 | | | |
| 3/18/2020 | | | 0.234 | | | 0.206 | |
| 3/23/2020 | | | | 0.494 | | | |
| 3/24/2020 | 0.327 | | | | | | 1.77 |
| 3/25/2020 | | 0.855 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 0.777 | | | | | |
| 9/17/2020 | | | | 0.117 | | 0.217 | 1.93 |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 0.339 | 0.921 | | | | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 9/23/2020 | | | 0.208 | 0.641 | | | |
| 2/1/2021 | | 0.865 | | | | | |
| 2/2/2021 | | | | | | 0.209 | |
| 2/3/2021 | | | | 0.156 | | | |
| 2/8/2021 | 0.319 | | 0.203 | | | | |
| 2/9/2021 | | | | 0.546 | | | |
| 2/10/2021 | | | | | | | 1.81 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | 0.13 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 0.208 | |
| 8/4/2021 | | 0.932 | 0.24 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 0.283 | | | | | | |
| 8/11/2021 | | | | 0.41 | | | |
| 8/12/2021 | | | | | | | 2.01 |
| 2/8/2022 | | | 0.175 | 0.398 | | | |
| 2/14/2022 | | | | 0.14 | | | |
| 2/15/2022 | | | | | | 0.176 | |
| 2/16/2022 | | | | | | | 1.89 |
| 2/22/2022 | 0.259 | 0.819 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.166 | 0.214 | | | | | |
| 3/18/2020 | | | | | 0.165 | | |
| 3/24/2020 | | | 0.291 | | | | 0.13 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | 0.167 | | | | | | |
| 5/13/2020 | | 0.224 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | 0.162 | | | | | | |
| 9/17/2020 | | 0.209 | | | 0.16 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 0.28 | 0.114 | | | 0.121 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 0.123 | | | |
| 2/3/2021 | | | | | | | 0.131 |
| 2/4/2021 | 0.152 | | | | | | |
| 2/8/2021 | | | | | 0.138 | 0.152 | |
| 2/9/2021 | | | 0.243 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 0.22 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 0.207 | | | | | 0.172 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.15 | | |
| 8/4/2021 | | 0.31 | 0.305 | | | | 0.203 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 0.113 | | | |
| 2/8/2022 | | | | | | 0.117 | |
| 2/9/2022 | 0.119 | | | | | | |
| 2/14/2022 | | 0.238 | | | | | |
| 2/15/2022 | | | | 0.0854 (J) | 0.125 | | |
| 2/16/2022 | | | | | | | 0.0837 (J) |
| 2/22/2022 | | | 0.239 | | | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/22/2022

2/28/2022

3/1/2022

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 0.387 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.402 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 0.389 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 0.419 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.422 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/22/2022 | | | | | | 0.124 | 0.199 |
| 2/28/2022 | | | | | 0.215 | | |
| 3/1/2022 | | 0.278 | 0.143 | 0.122 | | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 0.207 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 0.226 |
| 2/28/2022 | | | | |
| 3/1/2022 | 0.147 | 0.218 | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | <0.0002 | | <0.0002 | | <0.0002 | |
| 8/2/2016 | | | <0.0002 | | | | | | |
| 8/3/2016 | <0.0002 | | | | | | | | |
| 9/19/2016 | | | | | | <0.0002 | | <0.0002 | |
| 9/20/2016 | <0.0002 | | <0.0002 | <0.0002 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | <0.0002 | |
| 10/25/2016 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 12/13/2016 | <0.0002 | | <0.0002 | | | <0.0002 | | <0.0002 | |
| 12/14/2016 | | | | <0.0002 | | | | | |
| 2/6/2017 | | | | | | | | <0.0002 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 3/27/2017 | | | | | | | | <0.0002 | |
| 3/28/2017 | | | | <0.0002 | | | | | |
| 3/29/2017 | <0.0002 | | <0.0002 | | | <0.0002 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | <0.0002 | |
| 4/26/2017 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 6/5/2017 | | | | | | | | <0.0002 | |
| 6/6/2017 | | | | <0.0002 | | <0.0002 | | | |
| 6/7/2017 | <0.0002 | | <0.0002 | | | | | | |
| 2/19/2018 | | | | | | | | <0.0002 | |
| 2/20/2018 | <0.0002 | | <0.0002 | <0.0002 | | | | | |
| 2/21/2018 | | | | | | <0.0002 | | | |
| 5/15/2018 | <0.0002 | | <0.0002 | <0.0002 | | | | <0.0002 | |
| 5/16/2018 | | | | | | <0.0002 | | | |
| 10/15/2018 | | | | <0.0002 | | | | <0.0002 | |
| 10/16/2018 | <0.0002 | | | | | | | | |
| 10/17/2018 | | | <0.0002 | | | <0.0002 | | | |
| 2/20/2019 | | | | | | | | | 0.00189 (J) |
| 2/21/2019 | | <0.0002 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | <0.0002 | | <0.0002 | | | | | | |
| 4/17/2019 | | | | <0.0002 | | <0.0002 | | <0.0002 | |
| 9/23/2019 | | | | | | | | <0.0002 | |
| 9/24/2019 | | | | <0.0002 | | <0.0002 | | | <0.0002 |
| 9/25/2019 | <0.0002 | <0.0002 | | | | | | | |
| 3/16/2020 | | | | | | | | <0.0002 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.0002 | | | <0.0002 | <0.0002 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00279 (J) | | | | <0.0002 | | | |
| 3/25/2020 | | | | | | | | | <0.0002 |
| 5/12/2020 | | | | | | | | <0.0002 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.0002 | | <0.0002 | <0.0002 | |
| 9/22/2020 | | | | | | <0.0002 | | | |
| 9/23/2020 | <0.0002 | 0.0014 (J) | | <0.0002 | | | | | <0.0002 |
| 2/1/2021 | <0.0002 | 0.0013 | | | | | | | |
| 2/2/2021 | | | | | | | 0.000175 (J) | <0.0002 | |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | <0.0002 | | | | | | |
| 8/2/2016 | | <0.0002 | <0.0002 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.0002 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | <0.0002 | | <0.0002 | | | | |
| 10/24/2016 | <0.0002 | <0.0002 | | | | | |
| 10/25/2016 | | | <0.0002 | | | | |
| 12/13/2016 | <0.0002 | <0.0002 | | | | | |
| 12/14/2016 | | | <0.0002 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | <0.0002 | | | | | | |
| 2/8/2017 | | <0.0002 | <0.0002 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | <0.0002 | | <0.0002 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | <0.0002 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | <0.0002 | | | | |
| 2/21/2018 | <0.0002 | <0.0002 | | | | | |
| 5/15/2018 | | | <0.0002 | | | | |
| 5/16/2018 | <0.0002 | <0.0002 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.0002 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | <0.0002 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 9/23/2019 | | | | <0.0002 | | | |
| 9/24/2019 | <0.0002 | | <0.0002 | | | <0.0002 | |
| 9/25/2019 | | <0.0002 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.0002 | | | |
| 3/18/2020 | | | <0.0002 | | | <0.0002 | |
| 3/23/2020 | | | | <0.0002 | | | |
| 3/24/2020 | <0.0002 | | | | | | <0.0002 |
| 3/25/2020 | | <0.0002 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | <0.0002 | | | | | |
| 9/17/2020 | | | | <0.0002 | <0.0002 | <0.0002 | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | <0.0002 | <0.0002 | | | | | |
| 9/23/2020 | | | <0.0002 | <0.0002 | | | |
| 2/1/2021 | | <0.0002 | | | | | |
| 2/2/2021 | | | | | | <0.0002 | |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | <0.0002 | | |
| 2/8/2021 | <0.0002 | | <0.0002 | | | | |
| 2/9/2021 | | | | <0.0002 | | | |
| 2/10/2021 | | | | | | | <0.0002 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | <0.0002 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | <0.0002 | |
| 8/4/2021 | | <0.0002 | <0.0002 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | <0.0002 | | | | | | |
| 8/11/2021 | | | | <0.0002 | | | |
| 8/12/2021 | | | | | | | <0.0002 |
| 2/8/2022 | | | <0.0002 | <0.0002 | | | |
| 2/14/2022 | | | | | <0.0002 | | |
| 2/15/2022 | | | | | | <0.0002 | |
| 2/16/2022 | | | | | | | 0.00018 (J) |
| 2/22/2022 | <0.0002 | <0.0002 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.0002 | <0.0002 | | | | | |
| 3/18/2020 | | | | | <0.0002 | | |
| 3/24/2020 | | | <0.0002 | | | | <0.0002 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.0002 | | | | | | |
| 5/13/2020 | | <0.0002 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.0002 | | | | | | |
| 9/17/2020 | | <0.0002 | | | <0.0002 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | <0.0002 | <0.0002 | | | <0.0002 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | <0.0002 | | | |
| 2/3/2021 | | | | | | | <0.0002 |
| 2/4/2021 | <0.0002 | | | | | | |
| 2/8/2021 | | | | | <0.0002 | <0.0002 | |
| 2/9/2021 | | | 8.23E-05 (J) | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 8.8E-05 (J) | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | <0.0002 | | | | | <0.0002 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.0002 | | |
| 8/4/2021 | | <0.0002 | <0.0002 | | | | <0.0002 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | <0.0002 | | | |
| 2/8/2022 | | | | | | <0.0002 | |
| 2/9/2022 | <0.0002 | | | | | | |
| 2/14/2022 | | <0.0002 | | | | | |
| 2/15/2022 | | | | <0.0002 | <0.0002 | | |
| 2/16/2022 | | | | | | | <0.0002 |
| 2/22/2022 | | | <0.0002 | | | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | <0.0002 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.0002 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | <0.0002 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | <0.0002 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.0002 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | | 8E-05 (J) | 9E-05 (J) |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 0.00045 | | |
| 3/1/2022 | | 0.00013 (J) | <0.0002 | 0.00013 (J) | | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | <0.0002 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | <0.0002 |
| 2/28/2022 | | | | |
| 3/1/2022 | <0.0002 | <0.0002 | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 0.393 | | 0.036 (J) | | 0.0479 (J) | |
| 8/2/2016 | | | 0.0121 (J) | | | | | | |
| 8/3/2016 | 0.0265 (J) | | | | | | | | |
| 9/19/2016 | | | | | | 0.0346 (J) | | 0.0467 (J) | |
| 9/20/2016 | 0.0225 (J) | | 0.0116 (J) | 0.144 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 0.0462 (J) | |
| 10/25/2016 | 0.0217 (J) | | 0.0114 (J) | 0.152 | | 0.0353 (J) | | | |
| 12/13/2016 | 0.026 (J) | | 0.0116 (J) | | | 0.0361 (J) | | 0.0296 (J) | |
| 12/14/2016 | | | | 0.136 | | | | | |
| 2/6/2017 | | | | | | | | 0.064 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 0.0315 (J) | | 0.0118 (J) | 0.15 | | 0.0401 (J) | | | |
| 3/27/2017 | | | | | | | | 0.0683 | |
| 3/28/2017 | | | | 0.137 | | | | | |
| 3/29/2017 | 0.0308 (J) | | 0.0118 (J) | | | 0.0379 (J) | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 0.0534 | |
| 4/26/2017 | 0.0248 (J) | | <0.02 | 0.123 | | 0.0318 (J) | | | |
| 6/5/2017 | | | | | | | | 0.0574 | |
| 6/6/2017 | | | | 0.123 | | 0.032 (J) | | | |
| 6/7/2017 | 0.0234 (J) | | <0.02 | | | | | | |
| 2/19/2018 | | | | | | | | 0.0481 (J) | |
| 2/20/2018 | 0.058 | | <0.02 | 0.149 | | | | | |
| 2/21/2018 | | | | | | 0.0327 (J) | | | |
| 5/15/2018 | 0.0489 (J) | | 0.0101 | 0.159 | | | | 0.0551 | |
| 5/16/2018 | | | | | | 0.0337 (J) | | | |
| 10/15/2018 | | | | 0.297 | | | | 0.0606 | |
| 10/16/2018 | 0.0341 | | | | | | | | |
| 10/17/2018 | | | <0.02 | | | 0.0336 | | | |
| 2/20/2019 | | | | | | | | | 0.0671 |
| 2/21/2019 | | 0.0468 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | 0.0261 | | 0.0101 (J) | | | | | | |
| 4/17/2019 | | | | 0.19 | | 0.0349 | | 0.0574 | |
| 9/23/2019 | | | | | | | | 0.0583 | |
| 9/24/2019 | | | | 0.469 | | 0.0362 | | | 0.0809 |
| 9/25/2019 | 0.028 | 0.0611 | | | | | | | |
| 3/16/2020 | | | | | | | | 0.0665 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.0297 | | | 0.378 | 0.208 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.0462 | | | | 0.035 | | | |
| 3/25/2020 | | | | | | | | | 0.0646 |
| 5/12/2020 | | | | | | | | 0.0602 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.116 | | 0.074 | 0.0579 | |
| 9/22/2020 | | | | | | 0.0343 | | | |
| 9/23/2020 | 0.0279 | 0.0409 | | 0.414 | | | | | 0.0574 |
| 2/1/2021 | 0.0249 | 0.0384 | | | | | | | |
| 2/2/2021 | | | | | | | | 0.0634 | 0.0585 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 0.0252 (J) | | | | | | |
| 8/2/2016 | | 0.0495 (J) | 0.145 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | 0.049 (J) | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 0.0223 (J) | | 0.153 | | | | |
| 10/24/2016 | 0.0247 (J) | 0.0488 (J) | | | | | |
| 10/25/2016 | | | 0.171 | | | | |
| 12/13/2016 | 0.0312 (J) | 0.0483 (J) | | | | | |
| 12/14/2016 | | | 0.182 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 0.0406 (J) | | | | | | |
| 2/8/2017 | | 0.0644 | 0.178 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 0.0309 (J) | | 0.161 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 0.0597 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.0267 (J) | 0.0459 (J) | 0.126 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.0311 (J) | 0.0491 (J) | 0.135 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | 0.158 | | | | |
| 2/21/2018 | 0.0472 (J) | 0.0534 | | | | | |
| 5/15/2018 | | | 0.174 | | | | |
| 5/16/2018 | 0.0391 (J) | 0.0451 (J) | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.0406 | 0.0511 | 0.219 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.031 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 0.0282 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.0429 | 0.0421 | 0.312 | | | | |
| 9/23/2019 | | | | 0.0324 | | | |
| 9/24/2019 | 0.0392 | | 0.276 | | | 0.0275 | |
| 9/25/2019 | | 0.0457 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 0.0327 | | | |
| 3/18/2020 | | | 0.379 | | | 0.0264 | |
| 3/23/2020 | | | | 0.146 | | | |
| 3/24/2020 | 0.0417 | | | | | | 0.0461 |
| 3/25/2020 | | 0.0434 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 0.0409 | | | | | |
| 9/17/2020 | | | | 0.0333 | 0.0237 | 0.0449 | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 0.0435 | 0.0395 | | | | | |
| 9/23/2020 | | | 0.179 | 0.137 | | | |
| 2/1/2021 | | 0.0445 | | | | | |
| 2/2/2021 | | | | | | 0.0247 | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 0.0319 | | |
| 2/8/2021 | 0.0368 | | 0.239 | | | | |
| 2/9/2021 | | | | 0.124 | | | |
| 2/10/2021 | | | | | | | 0.0579 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 0.0309 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 0.0249 | |
| 8/4/2021 | | 0.0443 | 0.213 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 0.0305 | | | | | | |
| 8/11/2021 | | | | 0.048 | | | |
| 8/12/2021 | | | | | | | 0.0558 |
| 2/8/2022 | | | 0.0996 | 0.0835 | | | |
| 2/14/2022 | | | | | 0.0306 | | |
| 2/15/2022 | | | | | | 0.0239 | |
| 2/16/2022 | | | | | | | 0.0504 |
| 2/22/2022 | 0.0266 | 0.0354 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.074 | 0.0342 | | | | | |
| 3/18/2020 | | | | | 0.311 | | |
| 3/24/2020 | | | 0.0632 | | | | 0.0346 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | 0.0693 | | | | | | |
| 5/13/2020 | | 0.0337 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | 0.0685 | | | | | | |
| 9/17/2020 | | 0.035 | | | 0.341 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 0.0591 | 0.0405 | | | 0.0333 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 0.0571 | | | |
| 2/3/2021 | | | | | | | 0.0356 |
| 2/4/2021 | 0.0734 | | | | | | |
| 2/8/2021 | | | | | 0.356 | 0.14 | |
| 2/9/2021 | | | 0.0676 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 0.039 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 0.0722 | | | | | 0.178 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.369 | | |
| 8/4/2021 | | 0.0455 | 0.0672 | | | | 0.0348 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 0.0567 | | | |
| 2/8/2022 | | | | | | 0.0817 | |
| 2/9/2022 | 0.0673 | | | | | | |
| 2/14/2022 | | 0.0417 | | | | | |
| 2/15/2022 | | | | 0.0539 | 0.366 | | |
| 2/16/2022 | | | | | | | 0.0313 |
| 2/22/2022 | | | 0.0594 | | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 0.0734 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.0862 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 0.0743 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 0.0685 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.055 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.02 | | 0.0446 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 0.0228 | | |
| 3/1/2022 | | 0.0349 | 0.0281 | 0.0272 | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 0.0157 (J) | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 0.0653 |
| 2/28/2022 | | | | |
| 3/1/2022 | 0.0644 | 0.0361 | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | <0.0005 | | <0.0005 | | <0.0005 | |
| 8/2/2016 | | | <0.0005 | | | | | | |
| 8/3/2016 | <0.0005 | | | | | | | | |
| 9/19/2016 | | | | | | <0.0005 | | <0.0005 | |
| 9/20/2016 | <0.0005 | | <0.0005 | <0.0005 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | <0.0005 | |
| 10/25/2016 | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 | | | |
| 12/13/2016 | <0.0005 | | <0.0005 | | | <0.0005 | | <0.0005 | |
| 12/14/2016 | | | | <0.0005 | | | | | |
| 2/6/2017 | | | | | | | | <0.0005 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 | | | |
| 3/27/2017 | | | | | | | | <0.0005 | |
| 3/28/2017 | | | | <0.0005 | | | | | |
| 3/29/2017 | <0.0005 | | <0.0005 | | | <0.0005 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | <0.0005 | |
| 4/26/2017 | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 | | | |
| 6/5/2017 | | | | | | | | <0.0005 | |
| 6/6/2017 | | | | <0.0005 | | <0.0005 | | | |
| 6/7/2017 | <0.0005 | | <0.0005 | | | | | | |
| 2/19/2018 | | | | | | | | <0.0005 | |
| 2/20/2018 | <0.0005 | | <0.0005 | <0.0005 | | | | | |
| 2/21/2018 | | | | | | <0.0005 | | | |
| 5/15/2018 | <0.0005 | | <0.0005 | <0.0005 | | | | <0.0005 | |
| 5/16/2018 | | | | | | <0.0005 | | | |
| 10/15/2018 | | | | <0.0005 | | | | <0.0005 | |
| 10/16/2018 | <0.0005 | | | | | | | | |
| 10/17/2018 | | | <0.0005 | | | <0.0005 | | | |
| 2/20/2019 | | | | | | | | | <0.0005 |
| 2/21/2019 | | <0.0005 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | <0.0005 | | <0.0005 | | | | | | |
| 4/17/2019 | | | | <0.0005 | | <0.0005 | | <0.0005 | |
| 9/23/2019 | | | | | | | | <0.0005 | |
| 9/24/2019 | | | | <0.0005 | | <0.0005 | | | <0.0005 |
| 9/25/2019 | <0.0005 | <0.0005 | | | | | | | |
| 3/16/2020 | | | | | | | | <0.0005 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.0005 | | | <0.0005 | <0.0005 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <0.0005 | | | | <0.0005 | | | |
| 3/25/2020 | | | | | | | | | <0.0005 |
| 5/12/2020 | | | | | | | | <0.0005 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.0005 | | <0.0005 | <0.0005 | |
| 9/22/2020 | | | | | | <0.0005 | | | |
| 9/23/2020 | <0.0005 | <0.0005 | | <0.0005 | | | | | <0.0005 |
| 2/1/2021 | <0.0005 | <0.0005 | | | | | | | |
| 2/2/2021 | | | | | | | | <0.0005 | <0.0005 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | <0.0005 | | | | | | |
| 8/2/2016 | | <0.0005 | <0.0005 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.0005 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | <0.0005 | | <0.0005 | | | | |
| 10/24/2016 | <0.0005 | <0.0005 | | | | | |
| 10/25/2016 | | | <0.0005 | | | | |
| 12/13/2016 | <0.0005 | <0.0005 | | | | | |
| 12/14/2016 | | | <0.0005 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | <0.0005 | | | | | | |
| 2/8/2017 | | <0.0005 | <0.0005 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | <0.0005 | | <0.0005 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | <0.0005 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.0005 | <0.0005 | <0.0005 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.0005 | <0.0005 | <0.0005 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | <0.0005 | | | | |
| 2/21/2018 | <0.0005 | <0.0005 | | | | | |
| 5/15/2018 | | | <0.0005 | | | | |
| 5/16/2018 | <0.0005 | <0.0005 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.0005 | <0.0005 | <0.0005 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.0005 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | <0.0005 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.0005 | <0.0005 | <0.0005 | | | | |
| 9/23/2019 | | | | <0.0005 | | | |
| 9/24/2019 | <0.0005 | | <0.0005 | | | <0.0005 | |
| 9/25/2019 | | <0.0005 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.0005 | | | |
| 3/18/2020 | | | <0.0005 | | | <0.0005 | |
| 3/23/2020 | | | | <0.0005 | | | |
| 3/24/2020 | <0.0005 | | | | | | <0.0005 |
| 3/25/2020 | | <0.0005 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | <0.0005 | | | | | |
| 9/17/2020 | | | | <0.0005 | <0.0005 | <0.0005 | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | <0.0005 | <0.0005 | | | | | |
| 9/23/2020 | | | <0.0005 | <0.0005 | | | |
| 2/1/2021 | | <0.0005 | | | | | |
| 2/2/2021 | | | | | | <0.0005 | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | <0.0005 | | |
| 2/8/2021 | <0.0005 | | <0.0005 | | | | |
| 2/9/2021 | | | | <0.0005 | | | |
| 2/10/2021 | | | | | | | <0.0005 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | <0.0005 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | <0.0005 | |
| 8/4/2021 | | <0.0005 | <0.0005 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | <0.0005 | | | | | | |
| 8/11/2021 | | | | <0.0005 | | | |
| 8/12/2021 | | | | | | | <0.0005 |
| 2/8/2022 | | | <0.0005 | <0.0005 | | | |
| 2/14/2022 | | | | | <0.0005 | | |
| 2/15/2022 | | | | | | <0.0005 | |
| 2/16/2022 | | | | | | | <0.0005 |
| 2/22/2022 | <0.0005 | <0.0005 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.0005 | <0.0005 | | | | | |
| 3/18/2020 | | | | | <0.0005 | | |
| 3/24/2020 | | | <0.0005 | | | | <0.0005 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.0005 | | | | | | |
| 5/13/2020 | | <0.0005 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.0005 | | | | | | |
| 9/17/2020 | | <0.0005 | | | <0.0005 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | <0.0005 | <0.0005 | | | <0.0005 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | <0.0005 | | | |
| 2/3/2021 | | | | | | | <0.0005 |
| 2/4/2021 | <0.0005 | | | | | | |
| 2/8/2021 | | | | | <0.0005 | <0.0005 | |
| 2/9/2021 | | | <0.0005 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | <0.0005 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | <0.0005 | | | | | <0.0005 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.0005 | | |
| 8/4/2021 | | <0.0005 | <0.0005 | | | | <0.0005 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | <0.0005 | | | |
| 2/8/2022 | | | | | | <0.0005 | |
| 2/9/2022 | <0.0005 | | | | | | |
| 2/14/2022 | | <0.0005 | | | | | |
| 2/15/2022 | | | | <0.0005 | <0.0005 | | |
| 2/16/2022 | | | | | | | <0.0005 |
| 2/22/2022 | | | <0.0005 | | | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-43HO | GS-AP-MW-44HO | GS-AP-MW-6D | GS-AP-MW-6 | GS-AP-MW-6V | GS-AP-MW-7 | GS-AP-MW-8 (bg) | GS-AP-MW-9V | GS-AP-PZ-16 |
|------------|---------------|---------------|-------------|------------|-------------|------------|-----------------|-------------|-------------|
| 8/2/2016 | | | | | | <0.0005 | | | |
| 8/3/2016 | | | <0.0005 | <0.0005 | | | <0.0005 | | |
| 9/20/2016 | | | <0.0005 | <0.0005 | | | | | |
| 9/21/2016 | | | | | | <0.0005 | <0.0005 | | |
| 10/24/2016 | | | <0.0005 | | | <0.0005 | | | |
| 10/25/2016 | | | | | | | <0.0005 | | |
| 10/26/2016 | | | | <0.0005 | | | | | |
| 12/12/2016 | | | <0.0005 | <0.0005 | | <0.0005 | | | |
| 12/13/2016 | | | | | | | <0.0005 | | |
| 2/6/2017 | | | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | | |
| 3/27/2017 | | | <0.0005 | <0.0005 | | | | | |
| 3/28/2017 | | | | | | <0.0005 | <0.0005 | | |
| 4/24/2017 | | | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | | |
| 6/6/2017 | | | <0.0005 | <0.0005 | | | | | |
| 6/7/2017 | | | | | | <0.0005 | <0.0005 | | |
| 2/19/2018 | | | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | | |
| 5/14/2018 | | | <0.0005 | <0.0005 | | | | | |
| 5/15/2018 | | | | | | <0.0005 | <0.0005 | | |
| 10/15/2018 | | | <0.0005 | <0.0005 | | <0.0005 | | | |
| 10/16/2018 | | | | | | | <0.0005 | | |
| 4/16/2019 | | | <0.0005 | <0.0005 | | | <0.0005 | | |
| 4/23/2019 | | | | | | <0.0005 | | | |
| 9/23/2019 | | | <0.0005 | <0.0005 | | | | | |
| 9/24/2019 | | | | | | <0.0005 | <0.0005 | | |
| 3/17/2020 | | | <0.0005 | <0.0005 | | <0.0005 | | | |
| 3/18/2020 | | | | | | | <0.0005 | | |
| 3/23/2020 | | | | | | | | <0.0005 | |
| 3/24/2020 | | | | | | | | | <0.0005 |
| 3/25/2020 | <0.0005 | | | | | | | | |
| 8/27/2020 | | <0.0005 | | | | | | | |
| 9/8/2020 | | | | | <0.0005 | | | | |
| 9/15/2020 | | <0.0005 | | | <0.0005 | | | | |
| 9/16/2020 | | | | <0.0005 | | <0.0005 | | | |
| 9/17/2020 | | | <0.0005 | | | | | | <0.0005 |
| 9/21/2020 | | | | | | | <0.0005 | | |
| 9/22/2020 | <0.0005 | | | | | | | <0.0005 | |
| 2/2/2021 | | | | | | <0.0005 | <0.0005 | <0.0005 | |
| 2/3/2021 | | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | | | |
| 2/17/2021 | <0.0005 | | | | | | | | <0.0005 |
| 7/27/2021 | | <0.0005 | <0.0005 | <0.0005 | | | | | |
| 8/2/2021 | | | | | <0.0005 | | | | |
| 8/3/2021 | | | | | | | | | |
| 8/4/2021 | <0.0005 | | | | | | | | |
| 8/9/2021 | | | | | | <0.0005 | | | <0.0005 |
| 8/10/2021 | | | | | | | <0.0005 | <0.0005 | |
| 2/8/2022 | | | | | | <0.0005 | | | |
| 2/9/2022 | | <0.0005 | | | <0.0005 | | | | |
| 2/14/2022 | | | <0.0005 | <0.0005 | | | | | |
| 2/15/2022 | | | | | | | | | <0.0005 |
| 2/16/2022 | | | | | | | <0.0005 | | |
| 2/21/2022 | <0.0005 | | | | | | <0.0005 | | |
| 2/22/2022 | | | | | | | | <0.0005 | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | <0.0005 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.0005 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | <0.0005 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | <0.0005 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.0005 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | | <0.0005 | <0.0005 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | <0.0005 | | |
| 3/1/2022 | | <0.0005 | <0.0005 | <0.0005 | | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | <0.0005 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | <0.0005 |
| 2/28/2022 | | | | |
| 3/1/2022 | <0.0005 | <0.0005 | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2022 2:08 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 0.142 | | <0.0002 | | 0.00738 (J) | |
| 8/2/2016 | | | <0.0002 | | | | | | |
| 8/3/2016 | 0.0269 | | | | | | | | |
| 9/19/2016 | | | | | | <0.0002 | | 0.00889 (J) | |
| 9/20/2016 | 0.00762 (J) | | <0.0002 | 0.0683 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 0.00819 (J) | |
| 10/25/2016 | 0.00456 (J) | | <0.0002 | 0.063 | | <0.0002 | | | |
| 12/13/2016 | 0.00411 (J) | | <0.0002 | | | <0.0002 | | 0.0189 | |
| 12/14/2016 | | | | 0.0604 | | | | | |
| 2/6/2017 | | | | | | | | 0.00852 (J) | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 0.00235 (J) | | <0.0002 | 0.0346 | | <0.0002 | | | |
| 3/27/2017 | | | | | | | | 0.00592 (J) | |
| 3/28/2017 | | | | 0.0331 | | | | | |
| 3/29/2017 | <0.0002 | | <0.0002 | | | <0.0002 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 0.00644 (J) | |
| 4/26/2017 | <0.0002 | | <0.0002 | 0.038 | | <0.0002 | | | |
| 6/5/2017 | | | | | | | | 0.00537 (J) | |
| 6/6/2017 | | | | 0.0327 | | <0.0002 | | | |
| 6/7/2017 | <0.0002 | | <0.0002 | | | | | | |
| 2/19/2018 | | | | | | | | 0.0134 | |
| 2/20/2018 | <0.0002 | | <0.0002 | 0.0362 | | | | | |
| 2/21/2018 | | | | | | <0.0002 | | | |
| 5/15/2018 | <0.0002 | | <0.0002 | 0.0344 | | | | 0.00789 (J) | |
| 5/16/2018 | | | | | | <0.0002 | | | |
| 10/15/2018 | | | | 0.0525 | | | | 0.00376 (J) | |
| 10/16/2018 | <0.0002 | | | | | | | | |
| 10/17/2018 | | | <0.0002 | | | <0.0002 | | | |
| 2/20/2019 | | | | | | | | | 0.00577 (J) |
| 2/21/2019 | | 0.00253 (J) | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | <0.0002 | | <0.0002 | | | | | | |
| 4/17/2019 | | | | 0.029 | | <0.0002 | | 0.00661 (J) | |
| 9/23/2019 | | | | | | | | 0.011 | |
| 9/24/2019 | | | | 0.0597 | | <0.0002 | | | 0.00906 (J) |
| 9/25/2019 | <0.0002 | 0.00942 (J) | | | | | | | |
| 3/16/2020 | | | | | | | | 0.00504 (J) | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.00444 (J) | | | 0.0673 | 0.0327 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00454 (J) | | | | <0.0002 | | | |
| 3/25/2020 | | | | | | | | | 0.00508 (J) |
| 5/12/2020 | | | | | | | | 0.00436 (J) | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.0538 | | 0.041 | 0.00776 (J) | |
| 9/22/2020 | | | | | | <0.0002 | | | |
| 9/23/2020 | 0.00577 (J) | 0.00463 (J) | | 0.0744 | | | | | 0.00664 (J) |
| 2/1/2021 | 0.00792 | 0.00164 | | | | | | | |
| 2/2/2021 | | | | | | | 0.00538 | | 0.00252 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 0.00752 (J) | | | | | | |
| 8/2/2016 | | <0.0002 | 0.0365 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.0002 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 0.0117 | | 0.0362 | | | | |
| 10/24/2016 | 0.0198 | <0.0002 | | | | | |
| 10/25/2016 | | | 0.0326 | | | | |
| 12/13/2016 | 0.00703 (J) | <0.0002 | | | | | |
| 12/14/2016 | | | 0.0345 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 0.0103 | | | | | | |
| 2/8/2017 | | 0.00359 (J) | 0.0419 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 0.00599 (J) | | 0.0523 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 0.00485 (J) | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.00845 (J) | 0.00444 (J) | 0.0502 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.00624 (J) | 0.00489 (J) | 0.05 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | 0.0966 | | | | |
| 2/21/2018 | 0.00903 (J) | 0.0112 | | | | | |
| 5/15/2018 | | | 0.0687 | | | | |
| 5/16/2018 | 0.00515 (J) | 0.00547 (J) | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.00593 (J) | 0.00919 (J) | 0.061 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.0002 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | <0.0002 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.00703 (J) | 0.00293 (J) | 0.0885 | | | | |
| 9/23/2019 | | | | <0.0002 | | | |
| 9/24/2019 | 0.00562 (J) | | 0.0613 | | | <0.0002 | |
| 9/25/2019 | | 0.00803 (J) | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.0002 | | | |
| 3/18/2020 | | | 0.102 | | | <0.0002 | |
| 3/23/2020 | | | | 0.117 | | | |
| 3/24/2020 | 0.00605 (J) | | | | | | 0.0176 |
| 3/25/2020 | | 0.00343 (J) | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 0.00224 (J) | | | | | |
| 9/17/2020 | | | | <0.0002 | <0.0002 | | 0.0182 |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 0.0063 (J) | 0.00308 (J) | | | | | |
| 9/23/2020 | | | 0.0404 | 0.12 | | | |
| 2/1/2021 | | 0.00427 | | | | | |
| 2/2/2021 | | | | | | 0.000563 | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 0.000902 | | |
| 2/8/2021 | 0.00366 | | 0.0396 | | | | |
| 2/9/2021 | | | | 0.0983 | | | |
| 2/10/2021 | | | | | | | 0.0158 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 0.0009 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 0.00052 | |
| 8/4/2021 | | 0.00168 | 0.0367 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 0.00269 | | | | | | |
| 8/11/2021 | | | | 0.0394 | | | |
| 8/12/2021 | | | | | | | 0.0125 |
| 2/8/2022 | | | 0.0153 | 0.0819 | | | |
| 2/14/2022 | | | | | 0.00097 | | |
| 2/15/2022 | | | | | | 0.00053 | |
| 2/16/2022 | | | | | | | 0.00977 |
| 2/22/2022 | 0.00267 | 0.00327 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.00222 (J) | 0.00571 (J) | | | | | |
| 3/18/2020 | | | | | 0.0158 | | |
| 3/24/2020 | | | 0.00445 (J) | | | | <-0.0002 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <-0.0002 | | | | | | |
| 5/13/2020 | | 0.00475 (J) | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <-0.0002 | | | | | | |
| 9/17/2020 | | 0.0105 | | | 0.026 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 0.00423 (J) | 0.00293 (J) | | | <-0.0002 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 0.00257 | | | |
| 2/3/2021 | | | | | | | 0.00174 |
| 2/4/2021 | 0.00273 | | | | | | |
| 2/8/2021 | | | | | 0.0284 | 0.00288 | |
| 2/9/2021 | | | 0.00267 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 0.0054 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 0.0017 | | | | | 0.0044 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.0286 | | |
| 8/4/2021 | | 0.017 | 0.00377 | | | | 0.00169 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 0.00171 | | | |
| 2/8/2022 | | | | | | 0.00104 | |
| 2/9/2022 | 0.00175 | | | | | | |
| 2/14/2022 | | 0.0189 | | | | | |
| 2/15/2022 | | | | 0.002 | 0.0331 | | |
| 2/16/2022 | | | | | | | 0.00155 |
| 2/22/2022 | | | 0.00322 | | | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 0.00333 (J) | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.00357 (J) | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 0.00367 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 0.00352 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.00419 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.00028 | 0.0336 | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 0.00097 | | |
| 3/1/2022 | | 0.00288 | 0.00014 (J) | 0.00061 | | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 0.00091 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 0.00678 |
| 2/28/2022 | | | | |
| 3/1/2022 | 0.00212 | 0.00313 | | |

Time Series

Constituent: pH (SU) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 11.74 | | 7.53 | | 8.39 | |
| 8/2/2016 | | | 6.8 | | | | | | |
| 8/3/2016 | 7.36 | | | | | | | | |
| 9/19/2016 | | | | | | 7.5 | | 8.42 | |
| 9/20/2016 | 7.28 | | 6.8 | 10.33 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 8.42 | |
| 10/25/2016 | 7.23 | | 6.85 | 10.24 | | 7.44 | | | |
| 12/13/2016 | 7.27 | | 6.8 | | | 7.45 | | 8.43 | |
| 12/14/2016 | | | | 10.09 | | | | | |
| 2/6/2017 | | | | | | | | 8.38 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 7.25 | | 6.76 | 9.75 | | 7.41 | | | |
| 3/27/2017 | | | | | | | | 8.43 | |
| 3/28/2017 | | | | 9.9 | | | | | |
| 3/29/2017 | 7.34 | | 6.76 | | | 7.44 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 8.39 | |
| 4/26/2017 | 7.19 | | 6.71 | 10.08 | | 7.47 | | | |
| 6/5/2017 | | | | | | | | 8.42 | |
| 6/6/2017 | | | | 10.2 | | 7.37 | | | |
| 6/7/2017 | 7.24 | | 6.71 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 7.31 | | 6.84 | 10.57 | | 7.48 | | 8.4 | |
| 8/23/2017 | | | | | | | | | |
| 2/19/2018 | | | | | | | | 8.33 | |
| 2/20/2018 | 7.69 | | 6.77 | 10.63 | | | | | |
| 2/21/2018 | | | | | | 7.44 | | | |
| 5/15/2018 | 7.69 | | 6.8 | 10.71 | | | | 8.3 | |
| 5/16/2018 | | | | | | 7.45 | | | |
| 10/15/2018 | | | | 11.51 | | | | 8.37 | |
| 10/16/2018 | 7.51 | | | | | | | | |
| 10/17/2018 | | | 6.67 | | | 7.41 | | | |
| 2/20/2019 | | | | | | | | | 7.76 |
| 2/21/2019 | | 7.46 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | 7.41 | | 6.64 | | | | | | |
| 4/17/2019 | | | | 10.76 | | 7.33 | | 8.36 | |
| 9/23/2019 | | | | | | | | 8.37 | |
| 9/24/2019 | | | | 11.7 | | 7.43 | | | 7.65 |
| 9/25/2019 | 7.38 | 9.29 | | | | | | | |
| 3/16/2020 | | | | | | | | 8.45 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 7.56 | | | 11.47 | 10.89 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 7.8 | | | | 7.46 | | | |
| 3/25/2020 | | | | | | | | | 7.63 |
| 5/12/2020 | | | | | | | | 8.42 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 10.07 | | 9.99 | 8.22 | |
| 9/22/2020 | | | | | | 7.52 | | | |

Time Series

Constituent: pH (SU) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 8.05 | | | | | | |
| 8/2/2016 | | 9.18 | 10.26 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | 9.18 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 8.14 | | 10.45 | | | | |
| 10/24/2016 | 8.55 | 9.14 | | | | | |
| 10/25/2016 | | | 10.42 | | | | |
| 12/13/2016 | 8.08 | 9.2 | | | | | |
| 12/14/2016 | | | 10.12 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 8.61 | | | | | | |
| 2/8/2017 | | 9.17 | 10.28 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 7.94 | | 10.67 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 9.08 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 8.26 | 9.22 | 10.42 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 8.23 | 9.22 | 10.51 | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | 9.12 | | | | | |
| 8/22/2017 | 8.1 | | | | | | |
| 8/23/2017 | | | 11.91 | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | 11.57 | | | | |
| 2/21/2018 | 8.48 | 9.17 | | | | | |
| 5/15/2018 | | | 11.26 | | | | |
| 5/16/2018 | 8.12 | 9.28 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 8.22 | 9.35 | 11.34 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 6.17 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 7.04 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 8.06 | 9.26 | 11.71 | | | | |
| 9/23/2019 | | | | 5.76 | | | |
| 9/24/2019 | 7.8 | | 11.24 | | | 6.59 | |
| 9/25/2019 | | 9.31 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 5.95 | | | |
| 3/18/2020 | | | 11.37 | | | 7 | |
| 3/23/2020 | | | | 7.93 | | | |
| 3/24/2020 | 7.93 | | | | | | 8.67 |
| 3/25/2020 | | 9.29 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 9.43 | | | | | |
| 9/17/2020 | | | | 5.74 | | 7.02 | 8.83 |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 8.17 | 9.41 | | | | | |

Time Series

Constituent: pH (SU) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 9/23/2020 | | | 10.71 | 7.81 | | | |
| 2/1/2021 | | 9.31 | | | | | |
| 2/2/2021 | | | | | | 6.93 | |
| 2/3/2021 | | | | | 6.22 | | |
| 2/8/2021 | 7.89 | | 10.69 | | | | |
| 2/9/2021 | | | | 7.87 | | | |
| 2/10/2021 | | | | | | | 8.77 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 5.65 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 6.94 | |
| 8/4/2021 | | 9.08 | 10.95 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 7.72 | | | | | | |
| 8/11/2021 | | | | 8.28 | | | |
| 8/12/2021 | | | | | | | 8.78 |
| 2/8/2022 | | | 10.26 | 7.98 | | | |
| 2/14/2022 | | | | | 5.8 | | |
| 2/15/2022 | | | | | | 7 | |
| 2/16/2022 | | | | | | | 8.5 |
| 2/22/2022 | 7.71 | 9.42 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: pH (SU) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 8.4 | 8.44 | | | | | |
| 3/18/2020 | | | | 7.2 | | | |
| 3/24/2020 | | | 7.99 | | | | 6.28 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | 8.46 | | | | | | |
| 5/13/2020 | | 8.52 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | 8.48 | | | | | | |
| 9/17/2020 | | 8.18 | | 7.22 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 7.96 | 6.64 | | | 6.51 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 6.55 | | | |
| 2/3/2021 | | | | | | | 6.47 |
| 2/4/2021 | 8.35 | | | | | | |
| 2/8/2021 | | | | 7.36 | 6.77 | | |
| 2/9/2021 | | | 8.06 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 8.36 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 8.45 | | | | | 6.86 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 6.97 | | | |
| 8/4/2021 | | 8.37 | 7.75 | | | | 6.41 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 6.56 | | | |
| 2/8/2022 | | | | | | 6.66 | |
| 2/9/2022 | 8.55 | | | | | | |
| 2/14/2022 | | 8.22 | | | | | |
| 2/15/2022 | | | | 6.6 | 7.35 | | |
| 2/16/2022 | | | | | | | 6.54 |
| 2/22/2022 | | | 7.89 | | | | |

Time Series

Constituent: pH (SU) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-43HO | GS-AP-MW-44HO | GS-AP-MW-6D | GS-AP-MW-6 | GS-AP-MW-6V | GS-AP-MW-7 | GS-AP-MW-8 (bg) | GS-AP-MW-9V | GS-AP-PZ-16 |
|------------|---------------|---------------|-------------|------------|-------------|------------|-----------------|-------------|-------------|
| 8/2/2016 | | | | | | 7.72 | | | |
| 8/3/2016 | | | 7.27 | 6.81 | | | 5.84 | | |
| 9/20/2016 | | | 7.27 | 6.72 | | | | | |
| 9/21/2016 | | | | | | 7.6 | 5.99 | | |
| 10/24/2016 | | | 7.25 | | | 7.68 | | | |
| 10/25/2016 | | | | | | | 5.94 | | |
| 10/26/2016 | | | | 6.68 | | | | | |
| 12/12/2016 | | | 7.26 | 6.76 | | 7.72 | | | |
| 12/13/2016 | | | | | | | 5.84 | | |
| 2/6/2017 | | | 7.24 | 6.75 | | 7.64 | 5.9 | | |
| 3/27/2017 | | | 7.29 | 6.67 | | | | | |
| 3/28/2017 | | | | | | 7.58 | 5.67 | | |
| 4/24/2017 | | | 7.46 | 6.81 | | 7.68 | 5.79 | | |
| 6/6/2017 | | | 7.29 | 6.8 | | | | | |
| 6/7/2017 | | | | | | 7.56 | 5.71 | | |
| 8/21/2017 | | | 7.21 | 6.78 | | 7.61 | 5.7 | | |
| 2/19/2018 | | | 7.36 | 6.85 | | 7.65 | 5.78 | | |
| 5/14/2018 | | | 7.36 | 6.82 | | | | | |
| 5/15/2018 | | | | | | 7.69 | 5.84 | | |
| 10/15/2018 | | | 7.33 | 6.78 | | 7.62 | | | |
| 10/16/2018 | | | | | | | 5.75 | | |
| 4/16/2019 | | | 7.26 | 6.82 | | | 5.76 | | |
| 4/23/2019 | | | | | | 7.83 | | | |
| 9/23/2019 | | | 7.23 | 6.51 | | | | | |
| 9/24/2019 | | | | | | 7.38 | 5.27 | | |
| 3/17/2020 | | | 7.39 | 6.92 | | 7.72 | | | |
| 3/18/2020 | | | | | | | 5.81 | | |
| 3/23/2020 | | | | | | | 6.97 | | |
| 3/24/2020 | | | | | | | | | 7.89 |
| 3/25/2020 | 8.24 | | | | | | | | |
| 8/27/2020 | | 8.9 | | | | | | | |
| 9/8/2020 | | | | | 8.67 | | | | |
| 9/15/2020 | | 8.94 | | | 8.76 | | | | |
| 9/16/2020 | | | | 6.93 | | 7.74 | | | |
| 9/17/2020 | | | 7.41 | | | | | | 9.15 |
| 9/21/2020 | | | | | | | 5.75 | | |
| 9/22/2020 | 8.66 | | | | | | 7.08 | | |
| 2/2/2021 | | | | | | 7.77 | 5.69 | 6.94 | |
| 2/3/2021 | | 8.9 | 7.55 | 7.05 | 8.9 | | | | |
| 2/17/2021 | 8.72 | | | | | | | | 8.32 |
| 7/27/2021 | | 9.04 | 6.79 | 6.67 | | | | | |
| 8/2/2021 | | | | | 8.76 | | | | |
| 8/3/2021 | | | | | | | | | |
| 8/4/2021 | 8.75 | | | | | | | | |
| 8/9/2021 | | | | | | 7.49 | | | 9.09 |
| 8/10/2021 | | | | | | | 5.02 | 7.12 | |
| 2/8/2022 | | | | | | 7.71 | | | |
| 2/9/2022 | | 8.94 | | | 8.8 | | | | |
| 2/14/2022 | | | 7.43 | 6.99 | | | | | |
| 2/15/2022 | | | | | | | | | 9.34 |
| 2/16/2022 | | | | | | | 5.8 | | |
| 2/21/2022 | 8.58 | | | | | | 7 | | |

Time Series

Constituent: pH (SU) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/22/2022

2/28/2022

3/1/2022

Time Series

Constituent: pH (SU) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 7.77 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 8.81 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 7.5 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 7.74 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 7.4 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |

Time Series

Constituent: pH (SU) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/22/2022 | | | | | | 6.29 | 7.88 |
| 2/28/2022 | | | | | 7.04 | | |
| 3/1/2022 | | 6.87 | 6.68 | 6.47 | | | |

Time Series

Constituent: pH (SU) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 7.37 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 8.69 |
| 2/28/2022 | | | | |
| 3/1/2022 | 6.77 | 6.4 | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | <0.00102 | | <0.00102 | | <0.00102 | |
| 8/2/2016 | | | <0.00102 | | | | | | |
| 8/3/2016 | <0.00102 | | | | | | | | |
| 9/19/2016 | | | | | | <0.00102 | | <0.00102 | |
| 9/20/2016 | <0.00102 | | <0.00102 | <0.00102 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | <0.00102 | |
| 10/25/2016 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 12/13/2016 | <0.00102 | | <0.00102 | | | <0.00102 | | <0.00102 | |
| 12/14/2016 | | | | <0.00102 | | | | | |
| 2/6/2017 | | | | | | | | <0.00102 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 3/27/2017 | | | | | | | | <0.00102 | |
| 3/28/2017 | | | | <0.00102 | | | | | |
| 3/29/2017 | <0.00102 | | <0.00102 | | | <0.00102 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | <0.00102 | |
| 4/26/2017 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 6/5/2017 | | | | | | | | <0.00102 | |
| 6/6/2017 | | | | <0.00102 | | <0.00102 | | | |
| 6/7/2017 | <0.00102 | | <0.00102 | | | | | | |
| 2/19/2018 | | | | | | | | <0.00102 | |
| 2/20/2018 | <0.00102 | | <0.00102 | <0.00102 | | | | | |
| 2/21/2018 | | | | | | <0.00102 | | | |
| 5/15/2018 | <0.00102 | | <0.00102 | <0.00102 | | | | <0.00102 | |
| 5/16/2018 | | | | | | <0.00102 | | | |
| 10/15/2018 | | | | <0.00102 | | | | <0.00102 | |
| 10/16/2018 | <0.00102 | | | | | | | | |
| 10/17/2018 | | | <0.00102 | | | <0.00102 | | | |
| 2/20/2019 | | | | | | | | | <0.00102 |
| 2/21/2019 | | <0.00102 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | <0.00102 | | <0.00102 | | | | | | |
| 4/17/2019 | | | | <0.00102 | | <0.00102 | | <0.00102 | |
| 9/23/2019 | | | | | | | | <0.00102 | |
| 9/24/2019 | | | | <0.00102 | | <0.00102 | | | <0.00102 |
| 9/25/2019 | <0.00102 | <0.00102 | | | | | | | |
| 3/16/2020 | | | | | | | | <0.00102 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.00102 | | | <0.00102 | <0.00102 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <0.00102 | | | | <0.00102 | | | |
| 3/25/2020 | | | | | | | | | <0.00102 |
| 5/12/2020 | | | | | | | | <0.00102 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.00102 | | <0.00102 | <0.00102 | |
| 9/22/2020 | | | | | | <0.00102 | | | |
| 9/23/2020 | <0.00102 | <0.00102 | | <0.00102 | | | | | <0.00102 |
| 2/1/2021 | <0.00102 | <0.00102 | | | | | | | |
| 2/2/2021 | | | | | | | | <0.00102 | <0.00102 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | <0.00102 | | | | | | |
| 8/2/2016 | | <0.00102 | <0.00102 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.00102 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | <0.00102 | | <0.00102 | | | | |
| 10/24/2016 | <0.00102 | <0.00102 | | | | | |
| 10/25/2016 | | | <0.00102 | | | | |
| 12/13/2016 | <0.00102 | <0.00102 | | | | | |
| 12/14/2016 | | | <0.00102 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | <0.00102 | | | | | | |
| 2/8/2017 | | <0.00102 | <0.00102 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | <0.00102 | | <0.00102 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | <0.00102 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | <0.00102 | | | | |
| 2/21/2018 | <0.00102 | <0.00102 | | | | | |
| 5/15/2018 | | | <0.00102 | | | | |
| 5/16/2018 | <0.00102 | <0.00102 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.00102 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | <0.00102 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.00102 | <0.00102 | <0.00102 | | | | |
| 9/23/2019 | | | | <0.00102 | | | |
| 9/24/2019 | <0.00102 | | <0.00102 | | | <0.00102 | |
| 9/25/2019 | | <0.00102 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.00102 | | | |
| 3/18/2020 | | | <0.00102 | | | <0.00102 | |
| 3/23/2020 | | | | <0.00102 | | | |
| 3/24/2020 | <0.00102 | | | | | | <0.00102 |
| 3/25/2020 | | <0.00102 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | <0.00102 | | | | | |
| 9/17/2020 | | | | <0.00102 | <0.00102 | | 0.00636 (J) |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | <0.00102 | <0.00102 | | | | | |
| 9/23/2020 | | | <0.00102 | <0.00102 | | | |
| 2/1/2021 | | <0.00102 | | | | | |
| 2/2/2021 | | | | | | <0.00102 | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | <0.00102 | | |
| 2/8/2021 | <0.00102 | | <0.00102 | | | | |
| 2/9/2021 | | | | <0.00102 | | | |
| 2/10/2021 | | | | | | | <0.00102 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | <0.00102 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | <0.00102 | |
| 8/4/2021 | | <0.00102 | <0.00102 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | <0.00102 | | | | | | |
| 8/11/2021 | | | | <0.00102 | | | |
| 8/12/2021 | | | | | | | <0.00102 |
| 2/8/2022 | | | <0.00102 | <0.00102 | | | |
| 2/14/2022 | | | | | <0.00102 | | |
| 2/15/2022 | | | | | | <0.00102 | |
| 2/16/2022 | | | | | | | <0.00102 |
| 2/22/2022 | <0.00102 | <0.00102 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.00102 | <0.00102 | | | | | |
| 3/18/2020 | | | | | <0.00102 | | |
| 3/24/2020 | | | <0.00102 | | | | <0.00102 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.00102 | | | | | | |
| 5/13/2020 | | <0.00102 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.00102 | | | | | | |
| 9/17/2020 | | <0.00102 | | | <0.00102 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | <0.00102 | <0.00102 | | | <0.00102 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | <0.00102 | | | |
| 2/3/2021 | | | | | | | <0.00102 |
| 2/4/2021 | <0.00102 | | | | | | |
| 2/8/2021 | | | | | <0.00102 | <0.00102 | |
| 2/9/2021 | | | <0.00102 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | <0.00102 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | <0.00102 | | | | | <0.00102 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.00102 | | |
| 8/4/2021 | | <0.00102 | <0.00102 | | | | <0.00102 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | <0.00102 | | | |
| 2/8/2022 | | | | | | <0.00102 | |
| 2/9/2022 | <0.00102 | | | | | | |
| 2/14/2022 | | <0.00102 | | | | | |
| 2/15/2022 | | | | <0.00102 | <0.00102 | | |
| 2/16/2022 | | | | | | | <0.00102 |
| 2/22/2022 | | | <0.00102 | | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | <0.00102 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.00102 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | <0.00102 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | <0.00102 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.00102 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.00102 | <0.00102 | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | <0.00102 | | |
| 3/1/2022 | | <0.00102 | <0.00102 | <0.00102 | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | <0.00102 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | <0.00102 |
| 2/28/2022 | | | | |
| 3/1/2022 | <0.00102 | <0.00102 | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | 102 | | 13.4 | | 9.56 | |
| 8/2/2016 | | | 12 | | | | | | |
| 8/3/2016 | 19.2 | | | | | | | | |
| 9/19/2016 | | | | | | 12.9 | | 12.7 | |
| 9/20/2016 | 1.42 | | 11.2 | 53.3 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | 8.58 | |
| 10/25/2016 | <1 | | 10.1 | 49.8 | | 11.6 | | | |
| 12/13/2016 | 3.21 | | 11.4 | | | 12.7 | | 31 | |
| 12/14/2016 | | | | 40.9 | | | | | |
| 2/6/2017 | | | | | | | | 14.7 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | 3.3 | | 10.9 | 25 | | 12.2 | | | |
| 3/27/2017 | | | | | | | | 14 | |
| 3/28/2017 | | | | 27 | | | | | |
| 3/29/2017 | 3.8 (J) | | 11 | | | 12 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | 22 | |
| 4/26/2017 | 1.4 (J) | | 11 | 29 | | 13 | | | |
| 6/5/2017 | | | | | | | | 30 | |
| 6/6/2017 | | | | 23 | | 12 | | | |
| 6/7/2017 | 1.7 (J) | | 11 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 4.2 (J) | | 11 | 22 | | 12 | | 42 | |
| 8/23/2017 | | | | | | | | | |
| 5/15/2018 | 14 | | 11 | 13 | | | | 54 | |
| 5/16/2018 | | | | | | 13 | | | |
| 10/15/2018 | | | | 14 | | | | 34 | |
| 10/16/2018 | 13 | | | | | | | | |
| 10/17/2018 | | | 12 | | | 13 | | | |
| 2/20/2019 | | | | | | | | | 15.2 |
| 2/21/2019 | | <1 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | 13.3 | | 12.1 | | | | | | |
| 4/17/2019 | | | | 9.02 | | 14.1 | | 76.6 | |
| 9/23/2019 | | | | | | | | 124 | |
| 9/24/2019 | | | | 12.4 | | 14.1 | | | 11.8 |
| 9/25/2019 | 25.5 | 1.61 | | | | | | | |
| 3/16/2020 | | | | | | | | 48.6 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 20.8 | | | 15.9 | 261 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <1 | | | | 14.1 | | | |
| 3/25/2020 | | | | | | | | | 9.69 |
| 5/12/2020 | | | | | | | | 44.4 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 348 | | 2.95 | 104 | |
| 9/22/2020 | | | | | | 13.6 | | | |
| 9/23/2020 | 19.1 | 6.56 | | 13.2 | | | | | 11.1 |
| 2/1/2021 | 18.7 | <1 | | | | | | | |
| 2/2/2021 | | | | | | | | 55.1 | 8.81 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 9.02 | | | | | | |
| 8/2/2016 | | 2.87 | 9.14 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | 1.22 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 8.38 | | 8.71 | | | | |
| 10/24/2016 | 18.5 | <1 | | | | | |
| 10/25/2016 | | | 8.54 | | | | |
| 12/13/2016 | 7.4 | <1 | | | | | |
| 12/14/2016 | | | 11.5 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 8.16 | | | | | | |
| 2/8/2017 | | 19.4 | 17 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 6.4 | | 25 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 31 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 4.6 (J) | 29 | 28 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 5.2 | 37 | 33 | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | 55 | | | | | |
| 8/22/2017 | 5.3 | | | | | | |
| 8/23/2017 | | | 43 | | | | |
| 5/15/2018 | | | 110 | | | | |
| 5/16/2018 | 6 | 34 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 5.6 | 90 | 160 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 352 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 10.9 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 14.3 | 48.6 | 215 | | | | |
| 9/23/2019 | | | | 394 | | | |
| 9/24/2019 | 13.8 | | 224 | | | 15.3 | |
| 9/25/2019 | | 47.7 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 356 | | | |
| 3/18/2020 | | | 228 | | | 12.2 | |
| 3/23/2020 | | | | 1050 | | | |
| 3/24/2020 | 15.2 | | | | | | 201 |
| 3/25/2020 | | 38.5 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 33.6 | | | | | |
| 9/17/2020 | | | | 361 | | 6.7 | 173 |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 16.9 | 21.5 | | | | | |
| 9/23/2020 | | | 248 | 1120 | | | |
| 2/1/2021 | | 21.3 | | | | | |
| 2/2/2021 | | | | | | 6.43 | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 339 | | |
| 2/8/2021 | 16.2 | | 232 | | | | |
| 2/9/2021 | | | | 645 | | | |
| 2/10/2021 | | | | | | | 171 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | 339 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 6.21 | |
| 8/4/2021 | | 16.8 | 231 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 15.2 | | | | | | |
| 8/11/2021 | | | | 137 | | | |
| 8/12/2021 | | | | | | | 125 |
| 2/8/2022 | | | 241 | 451 | | | |
| 2/14/2022 | | | | | 356 | | |
| 2/15/2022 | | | | | | 12.1 | |
| 2/16/2022 | | | | | | | 130 |
| 2/22/2022 | 13.7 | 17.1 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 40.1 | 57.1 | | | | | |
| 3/18/2020 | | | | | 122 | | |
| 3/24/2020 | | | 16.7 | | | | 449 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | 22.6 | | | | | | |
| 5/13/2020 | | 47.8 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | 24.6 | | | | | | |
| 9/17/2020 | | 50.2 | | | 105 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 27 | 626 | | | 372 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 644 | | | |
| 2/3/2021 | | | | | | | 373 |
| 2/4/2021 | 25.3 | | | | | | |
| 2/8/2021 | | | | | 111 | 95.1 | |
| 2/9/2021 | | | 27 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 28.9 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 20.7 | | | | | 103 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 94.1 | | |
| 8/4/2021 | | 83.7 | 32.3 | | | | 372 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 661 | | | |
| 2/8/2022 | | | | | | 105 | |
| 2/9/2022 | 21.7 | | | | | | |
| 2/14/2022 | | 112 | | | | | |
| 2/15/2022 | | | | 684 | 110 | | |
| 2/16/2022 | | | | | | | 396 |
| 2/22/2022 | | | 27.9 | | | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 70.1 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 79.9 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 84.1 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 74.7 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 91.1 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 33.3 | | |
| 3/1/2022 | | 21.6 | 39.4 | 38 | | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 55.5 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 317 |
| 2/28/2022 | | | | |
| 3/1/2022 | 348 | 104 | | |

Time Series

Constituent: TDS (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | 245 | | | | | | |
| 8/2/2016 | | 390 | 348 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | 398 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | 267 | | 368 | | | | |
| 10/24/2016 | 275 | 395 | | | | | |
| 10/25/2016 | | | 348 | | | | |
| 12/13/2016 | 255 | 381 | | | | | |
| 12/14/2016 | | | 352 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | 272 | | | | | | |
| 2/8/2017 | | 376 | 352 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | 271 | | 370 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | 391 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 265 | 384 | 342 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 287 | 404 | 367 | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | 416 | | | | | |
| 8/22/2017 | 293 | | | | | | |
| 8/23/2017 | | | 508 | | | | |
| 5/15/2018 | | | 438 | | | | |
| 5/16/2018 | 301 | 365 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 303 | 430 | 520 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 560 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | 249 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 296 | 341 | 582 | | | | |
| 9/23/2019 | | | | 598 | | | |
| 9/24/2019 | 302 | | 630 | | | 253 | |
| 9/25/2019 | | 358 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 626 | | | |
| 3/18/2020 | | | 661 | | | 250 | |
| 3/23/2020 | | | | 3410 | | | |
| 3/24/2020 | 302 | | | | | | 948 |
| 3/25/2020 | | 337 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | 328 | | | | | |
| 9/17/2020 | | | | 648 | | 250 | 960 |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | 300 | 318 | | | | | |
| 9/23/2020 | | | 642 | 3690 | | | |
| 2/1/2021 | | 333 | | | | | |
| 2/2/2021 | | | | | | 259 | |

Time Series

Constituent: TDS (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | 612 | | |
| 2/8/2021 | 324 | | 684 | | | | |
| 2/9/2021 | | | | 2250 | | | |
| 2/10/2021 | | | | | | | 887 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | 580 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | 191 | |
| 8/4/2021 | | 316 | 594 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | 307 | | | | | | |
| 8/11/2021 | | | | 712 | | | |
| 8/12/2021 | | | | | | | 967 |
| 2/8/2022 | | | 570 | 1360 | | | |
| 2/14/2022 | | | | | 592 | | |
| 2/15/2022 | | | | | | 241 | |
| 2/16/2022 | | | | | | | 945 |
| 2/22/2022 | 304 | 295 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: TDS (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 365 | 362 | | | | | |
| 3/18/2020 | | | | | 309 | | |
| 3/24/2020 | | | 335 | | | | 850 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | 311 | | | | | | |
| 5/13/2020 | | 333 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | 326 | | | | | | |
| 9/17/2020 | | 348 | | | 318 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | 339 | 1310 | | | 800 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | 1320 | | | |
| 2/3/2021 | | | | | | | 768 |
| 2/4/2021 | 339 | | | | | | |
| 2/8/2021 | | | | | 326 | 317 | |
| 2/9/2021 | | | 355 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | 292 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | 302 | | | | | 283 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 307 | | |
| 8/4/2021 | | 449 | 368 | | | | 740 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | 1240 | | | |
| 2/8/2022 | | | | | | 265 | |
| 2/9/2022 | 322 | | | | | | |
| 2/14/2022 | | 514 | | | | | |
| 2/15/2022 | | | | 1230 | 307 | | |
| 2/16/2022 | | | | | | | 774 |
| 2/22/2022 | | | 345 | | | | |

Time Series

Constituent: TDS (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: TDS (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | 412 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 438 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | 446 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | 414 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 423 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 136 | 298 | |

Time Series

Constituent: TDS (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | 305 | | |
| 3/1/2022 | | 250 | 244 | 201 | | | |

Time Series

Constituent: TDS (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | 303 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | 614 |
| 2/28/2022 | | | | |
| 3/1/2022 | 762 | 398 | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-16S ... | GS-AP-MW-17 | GS-AP-MW-17V ... |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|------------------|-------------|------------------|
| 8/1/2016 | | | | <0.0002 | | <0.0002 | | <0.0002 | |
| 8/2/2016 | | | <0.0002 | | | | | | |
| 8/3/2016 | <0.0002 | | | | | | | | |
| 9/19/2016 | | | | | | <0.0002 | | <0.0002 | |
| 9/20/2016 | <0.0002 | | <0.0002 | <0.0002 | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | | | | | | | <0.0002 | |
| 10/25/2016 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 12/13/2016 | <0.0002 | | <0.0002 | | | <0.0002 | | <0.0002 | |
| 12/14/2016 | | | | <0.0002 | | | | | |
| 2/6/2017 | | | | | | | | <0.0002 | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 3/27/2017 | | | | | | | | <0.0002 | |
| 3/28/2017 | | | | <0.0002 | | | | | |
| 3/29/2017 | <0.0002 | | <0.0002 | | | <0.0002 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | | <0.0002 | |
| 4/26/2017 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 | | | |
| 6/5/2017 | | | | | | | | <0.0002 | |
| 6/6/2017 | | | | <0.0002 | | <0.0002 | | | |
| 6/7/2017 | <0.0002 | | <0.0002 | | | | | | |
| 2/19/2018 | | | | | | | | <0.0002 | |
| 2/20/2018 | <0.0002 | | <0.0002 | <0.0002 | | | | | |
| 2/21/2018 | | | | | | <0.0002 | | | |
| 5/15/2018 | <0.0002 | | <0.0002 | <0.0002 | | | | <0.0002 | |
| 5/16/2018 | | | | | | <0.0002 | | | |
| 10/15/2018 | | | | <0.0002 | | | | <0.0002 | |
| 10/16/2018 | <0.0002 | | | | | | | | |
| 10/17/2018 | | | <0.0002 | | | <0.0002 | | | |
| 2/20/2019 | | | | | | | | | <0.0002 |
| 2/21/2019 | | <0.0002 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 4/16/2019 | <0.0002 | | <0.0002 | | | | | | |
| 4/17/2019 | | | | <0.0002 | | <0.0002 | | <0.0002 | |
| 9/23/2019 | | | | | | | | <0.0002 | |
| 9/24/2019 | | | | <0.0002 | | <0.0002 | | | <0.0002 |
| 9/25/2019 | <0.0002 | <0.0002 | | | | | | | |
| 3/16/2020 | | | | | | | | <0.0002 | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.0002 | | | <0.0002 | <0.0002 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <0.0002 | | | | <0.0002 | | | |
| 3/25/2020 | | | | | | | | | <0.0002 |
| 5/12/2020 | | | | | | | | <0.0002 | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.0002 | | <0.0002 | <0.0002 | |
| 9/22/2020 | | | | | | <0.0002 | | | |
| 9/23/2020 | <0.0002 | <0.0002 | | <0.0002 | | | | | <0.0002 |
| 2/1/2021 | <0.0002 | <0.0002 | | | | | | | |
| 2/2/2021 | | | | | | | | <0.0002 | <0.0002 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|------------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 8/1/2016 | <0.0002 | | | | | | |
| 8/2/2016 | | <0.0002 | <0.0002 | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | | <0.0002 | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | <0.0002 | | <0.0002 | | | | |
| 10/24/2016 | <0.0002 | <0.0002 | | | | | |
| 10/25/2016 | | | <0.0002 | | | | |
| 12/13/2016 | <0.0002 | <0.0002 | | | | | |
| 12/14/2016 | | | <0.0002 | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | <0.0002 | | | | | | |
| 2/8/2017 | | <0.0002 | <0.0002 | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | <0.0002 | | <0.0002 | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | | <0.0002 | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | | <0.0002 | | | | |
| 2/21/2018 | <0.0002 | <0.0002 | | | | | |
| 5/15/2018 | | | <0.0002 | | | | |
| 5/16/2018 | <0.0002 | <0.0002 | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.0002 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | | <0.0002 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.0002 | <0.0002 | <0.0002 | | | | |
| 9/23/2019 | | | | <0.0002 | | | |
| 9/24/2019 | <0.0002 | | <0.0002 | | | <0.0002 | |
| 9/25/2019 | | <0.0002 | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.0002 | | | |
| 3/18/2020 | | | <0.0002 | | | <0.0002 | |
| 3/23/2020 | | | | <0.0002 | | | |
| 3/24/2020 | <0.0002 | | | | | | <0.0002 |
| 3/25/2020 | | <0.0002 | | | | | |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | | <0.0002 | | | | | |
| 9/17/2020 | | | | <0.0002 | <0.0002 | <0.0002 | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | <0.0002 | <0.0002 | | | | | |
| 9/23/2020 | | | <0.0002 | <0.0002 | | | |
| 2/1/2021 | | <0.0002 | | | | | |
| 2/2/2021 | | | | | | <0.0002 | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA |
|-----------|-------------|------------|-------------|--------------|--------------|--------------|---------------|
| 2/3/2021 | | | | | <0.0002 | | |
| 2/8/2021 | <0.0002 | | <0.0002 | | | | |
| 2/9/2021 | | | | <0.0002 | | | |
| 2/10/2021 | | | | | | | <0.0002 |
| 6/9/2021 | | | | | | | |
| 7/27/2021 | | | | | <0.0002 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | <0.0002 | |
| 8/4/2021 | | <0.0002 | <0.0002 | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | <0.0002 | | | | | | |
| 8/11/2021 | | | | <0.0002 | | | |
| 8/12/2021 | | | | | | | <0.0002 |
| 2/8/2022 | | | <0.0002 | <0.0002 | | | |
| 2/14/2022 | | | | | <0.0002 | | |
| 2/15/2022 | | | | | | <0.0002 | |
| 2/16/2022 | | | | | | | <0.0002 |
| 2/22/2022 | <0.0002 | <0.0002 | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-35HO | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H |
|-----------|---------------|--------------|--------------|--------------|---------------|---------------|--------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.0002 | <0.0002 | | | | | |
| 3/18/2020 | | | | | <0.0002 | | |
| 3/24/2020 | | | <0.0002 | | | | <0.0002 |
| 3/25/2020 | | | | | | | |
| 5/12/2020 | <0.0002 | | | | | | |
| 5/13/2020 | | <0.0002 | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | <0.0002 | | | | | | |
| 9/17/2020 | | <0.0002 | | | <0.0002 | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | <0.0002 | <0.0002 | | | <0.0002 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | | <0.0002 | | | |
| 2/3/2021 | | | | | | | <0.0002 |
| 2/4/2021 | <0.0002 | | | | | | |
| 2/8/2021 | | | | | <0.0002 | <0.0002 | |
| 2/9/2021 | | | <0.0002 | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | | <0.0002 | | | | | |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | <0.0002 | | | | | <0.0002 | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.0002 | | |
| 8/4/2021 | | <0.0002 | <0.0002 | | | | <0.0002 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | <0.0002 | | | |
| 2/8/2022 | | | | | | <0.0002 | |
| 2/9/2022 | <0.0002 | | | | | | |
| 2/14/2022 | | <0.0002 | | | | | |
| 2/15/2022 | | | | <0.0002 | <0.0002 | | |
| 2/16/2022 | | | | | | | <0.0002 |
| 2/22/2022 | | | <0.0002 | | | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-43HO GS-AP-MW-44HO GS-AP-MW-6D GS-AP-MW-6 GS-AP-MW-6V GS-AP-MW-7 GS-AP-MW-8 (bg) GS-AP-MW-9V GS-AP-PZ-16

2/28/2022

3/1/2022

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2022 2:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | <0.0002 | | | | | | |
| 3/25/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.0002 | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | <0.0002 | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | <0.0002 | | | | | | |
| 8/4/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.0002 | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | | <0.0002 | <0.0002 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-PZ-22 | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR |
|-----------|-------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 2/28/2022 | | | | | <0.0002 | | |
| 3/1/2022 | | <0.0002 | <0.0002 | <0.0002 | | | |

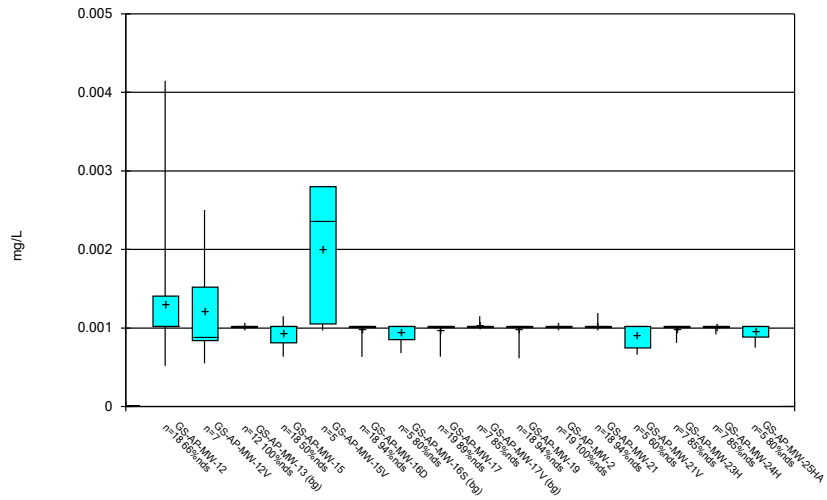
Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2022 2:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-5R | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|-------------|--------------|-------------|
| 2/21/2022 | | | <0.0002 | |
| 2/22/2022 | | | | |
| 2/23/2022 | | | | <0.0002 |
| 2/28/2022 | | | | |
| 3/1/2022 | <0.0002 | <0.0002 | | |

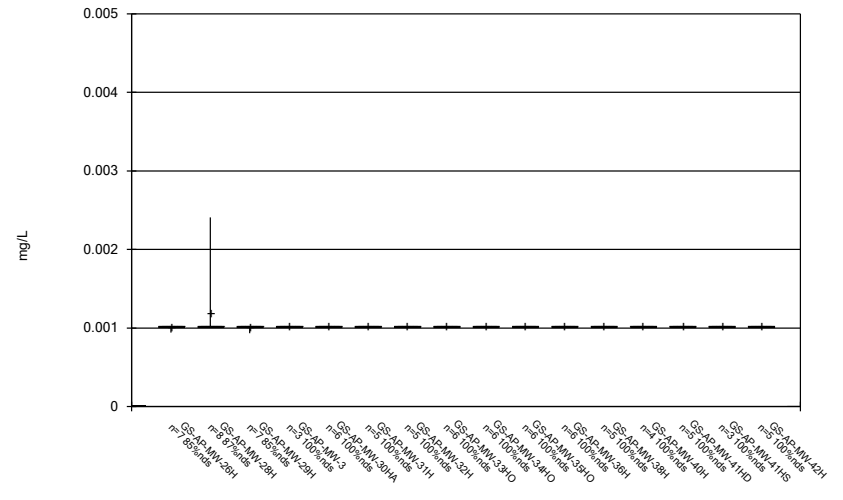
FIGURE B.

Box & Whiskers Plot



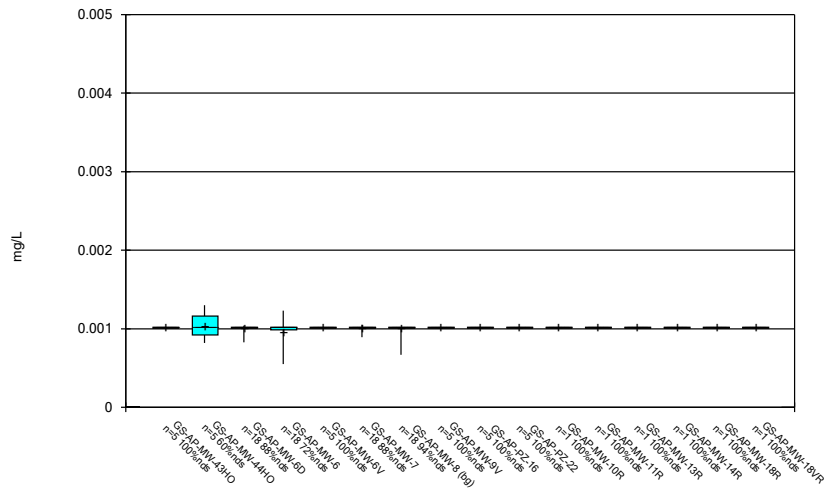
Constituent: Antimony Analysis Run 5/16/2022 2:09 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



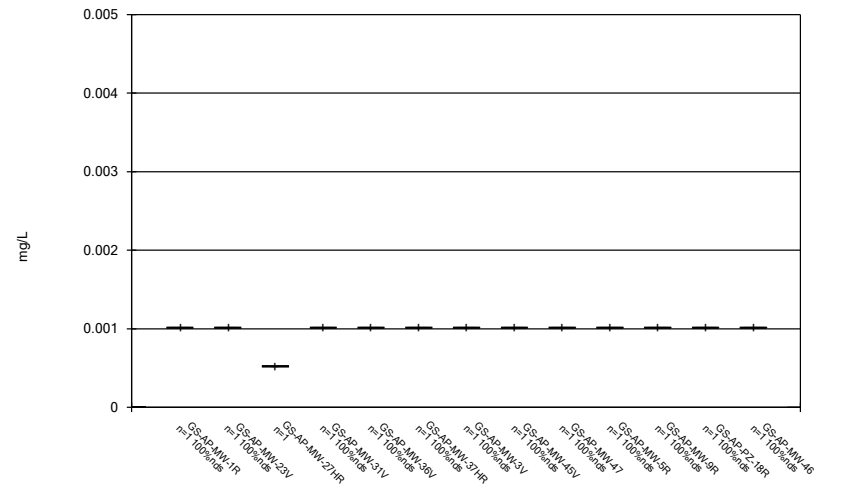
Constituent: Antimony Analysis Run 5/16/2022 2:09 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



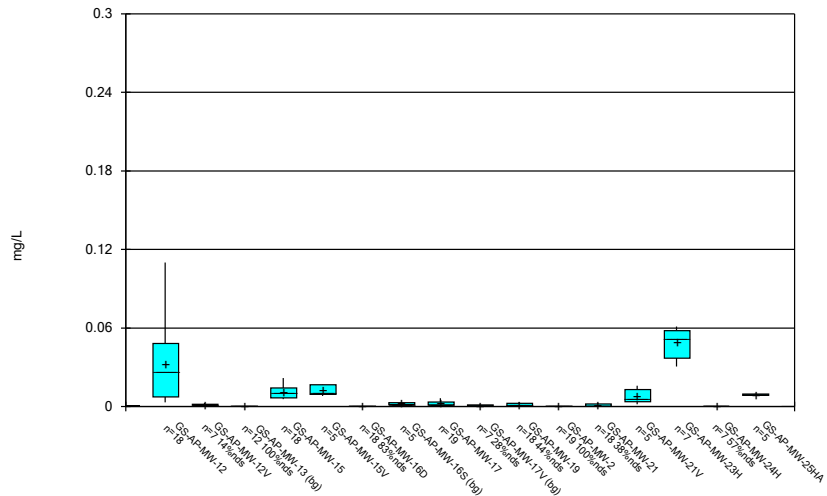
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



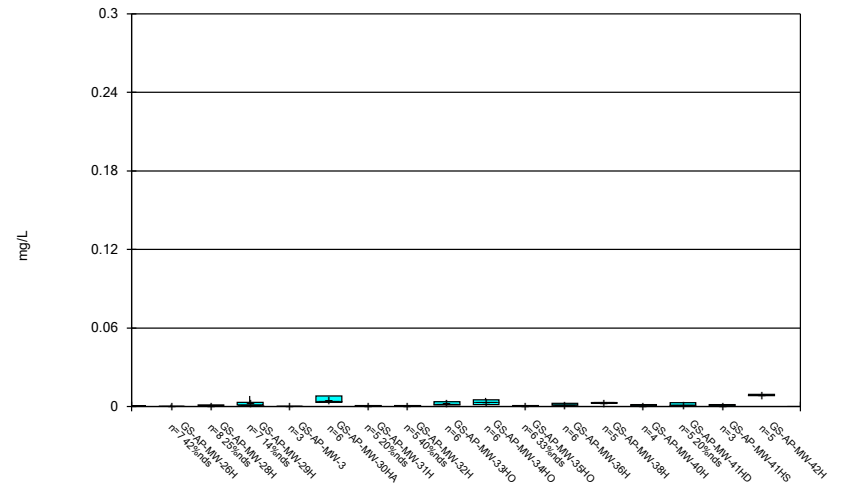
Constituent: Antimony Analysis Run 5/16/2022 2:09 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



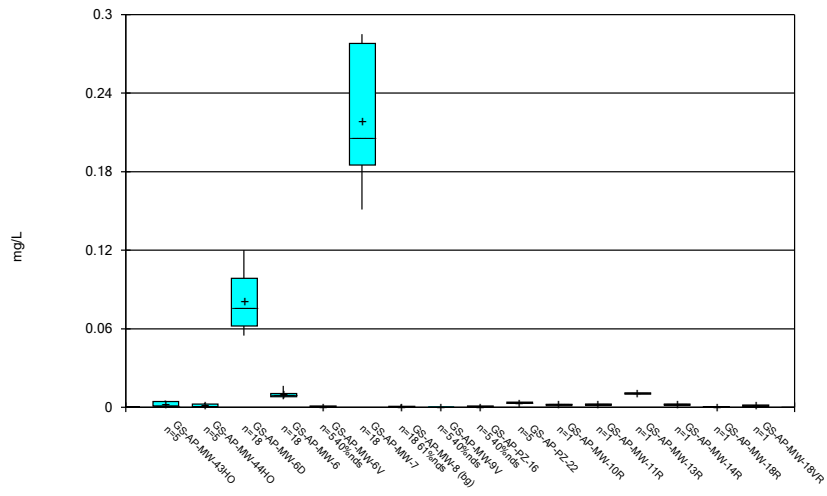
Constituent: Arsenic Analysis Run 5/16/2022 2:09 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



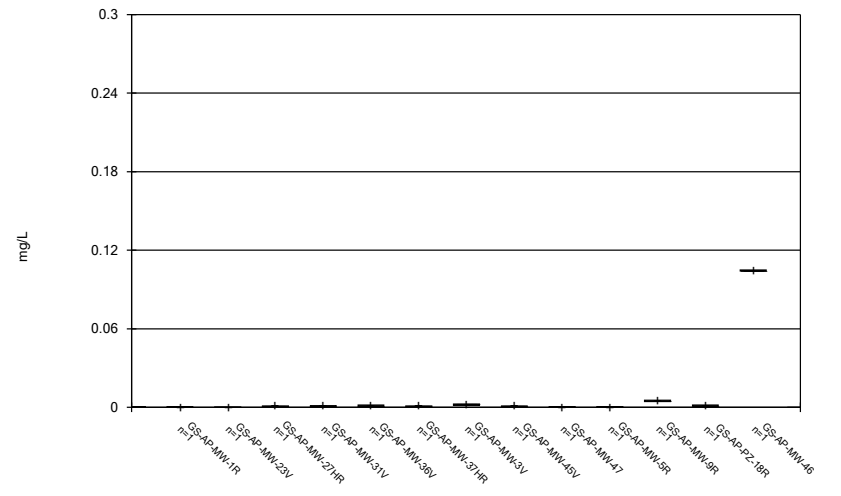
Constituent: Arsenic Analysis Run 5/16/2022 2:09 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



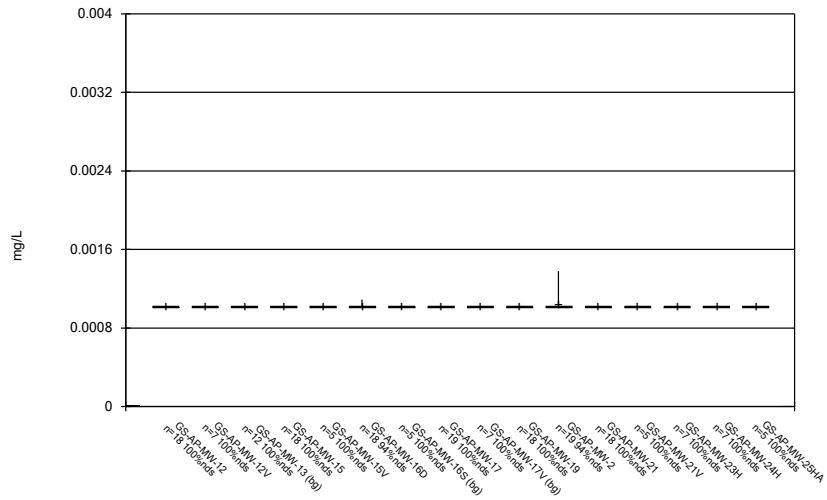
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



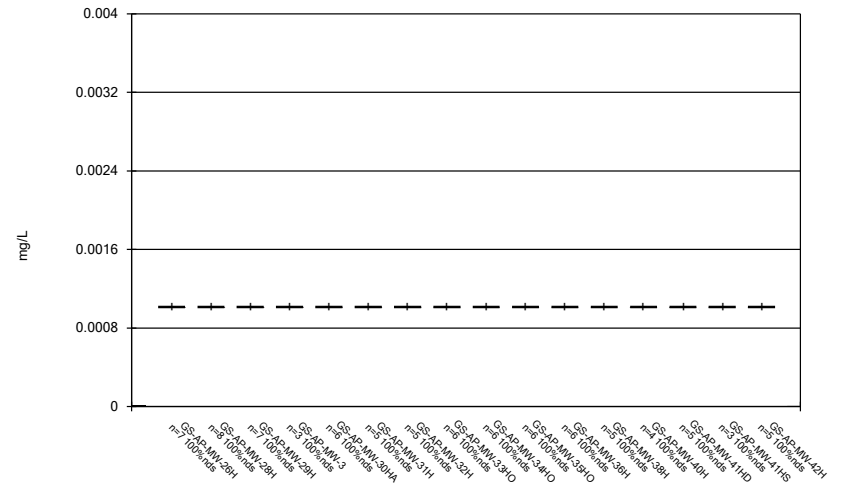
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



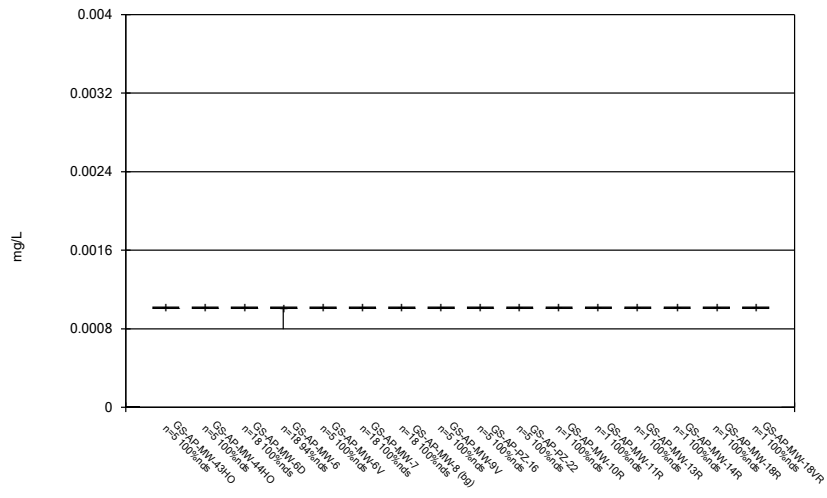
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



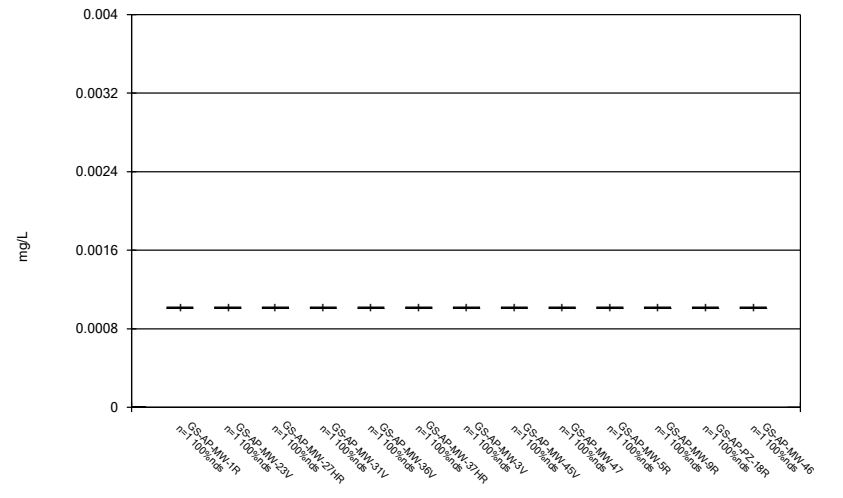
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



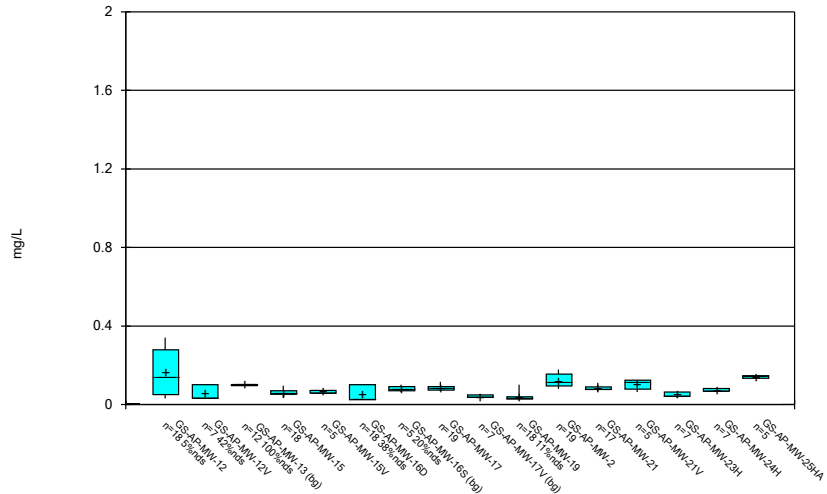
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



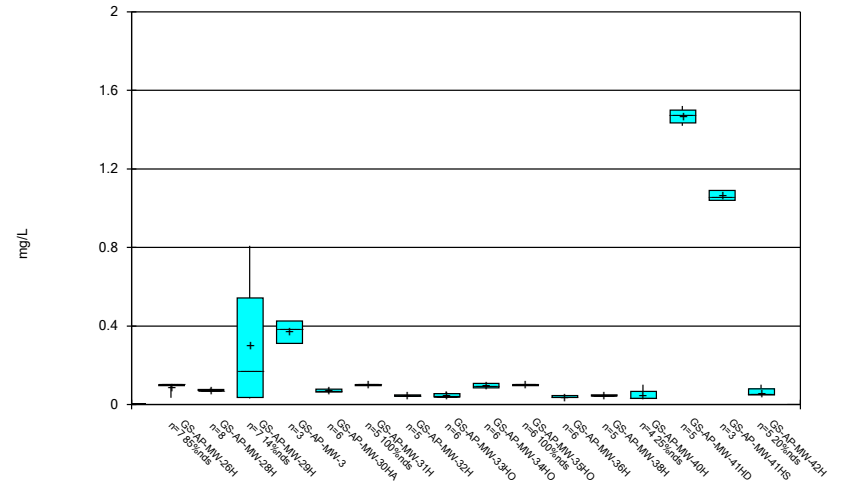
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



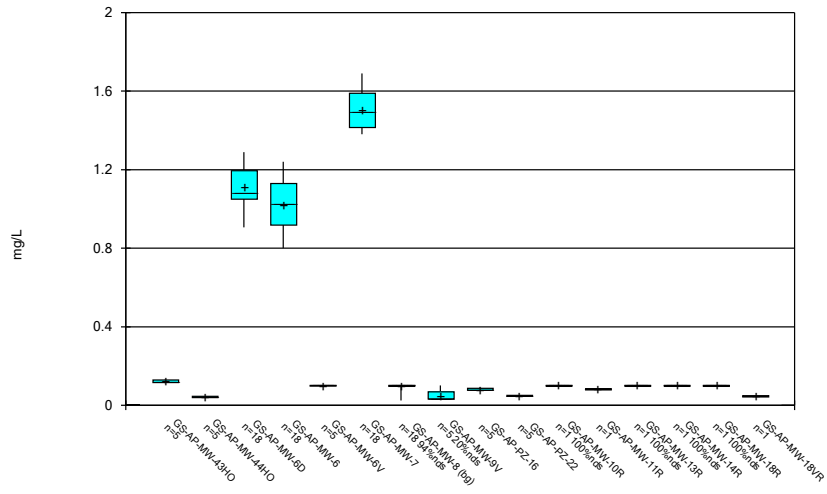
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



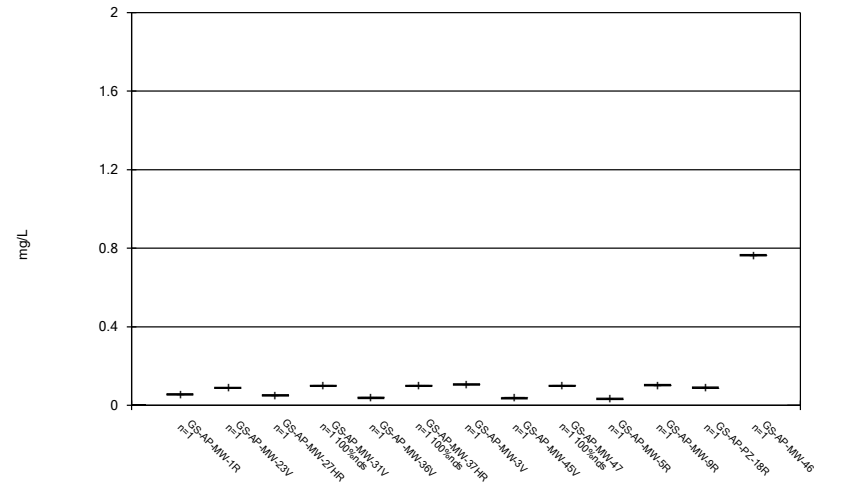
Constituent: Boron Analysis Run 5/16/2022 2:09 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



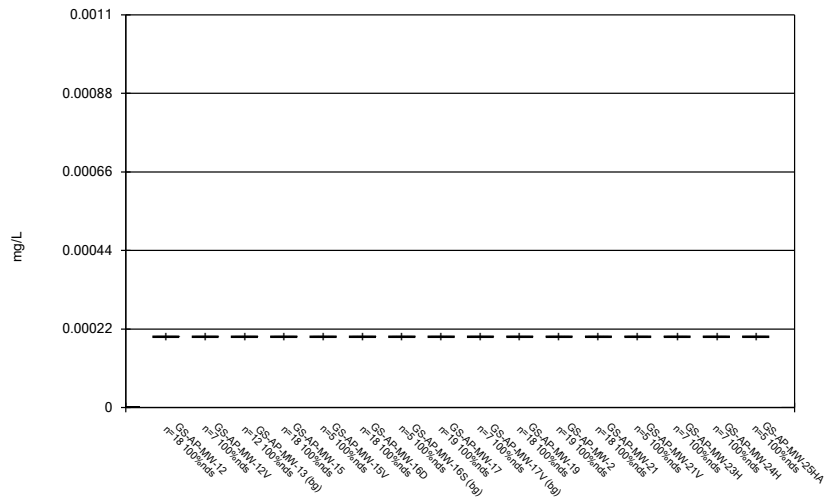
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



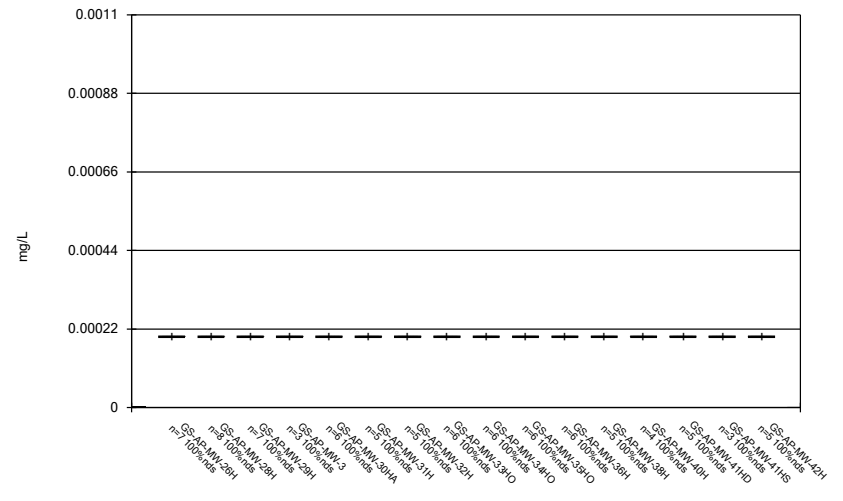
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



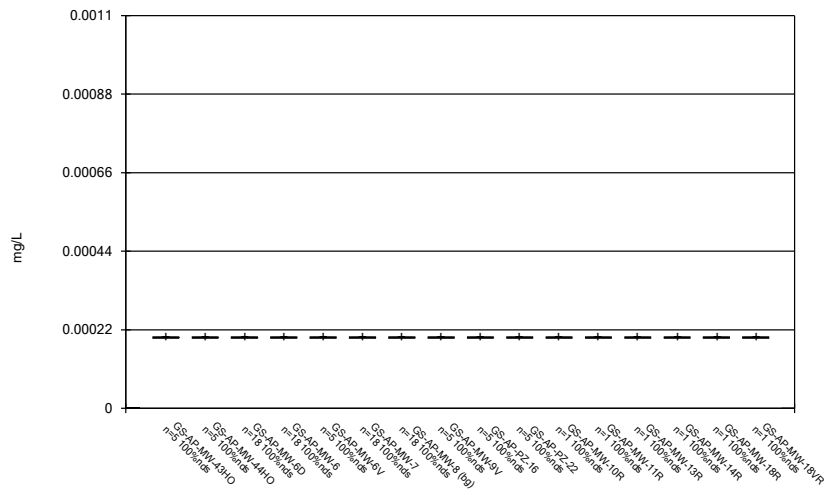
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



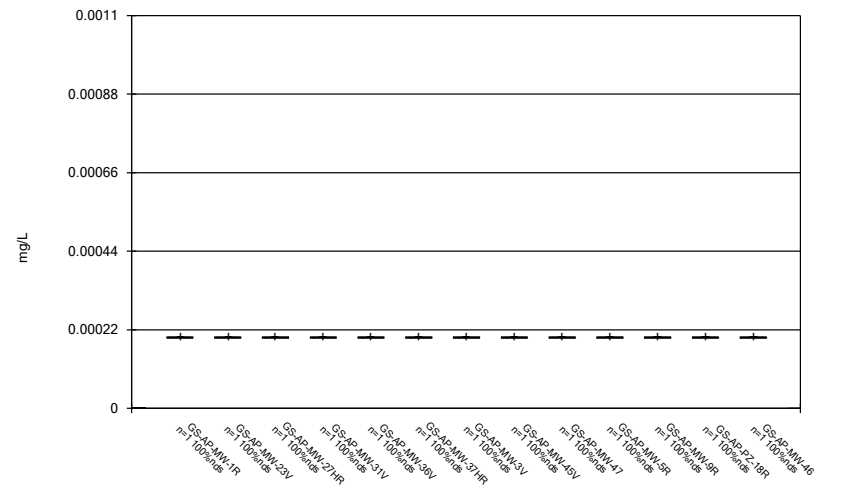
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



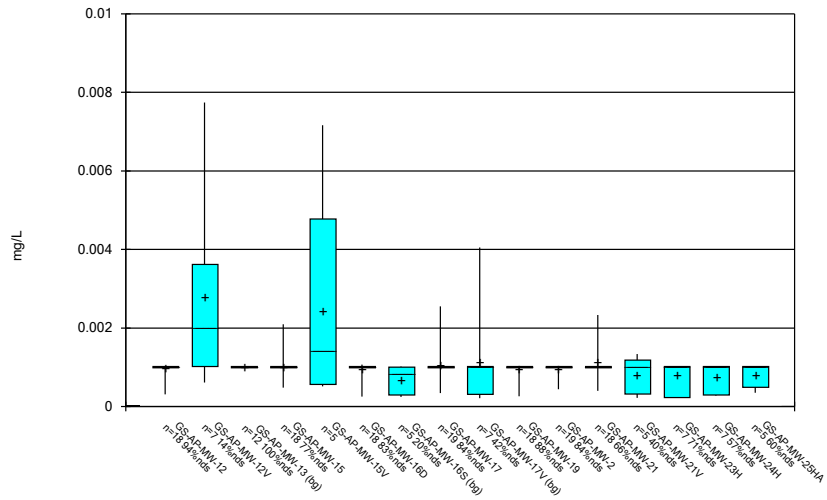
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



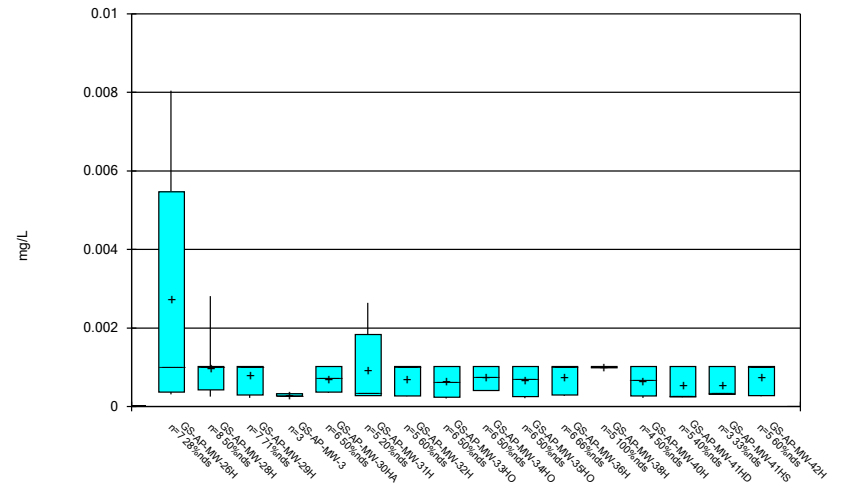
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



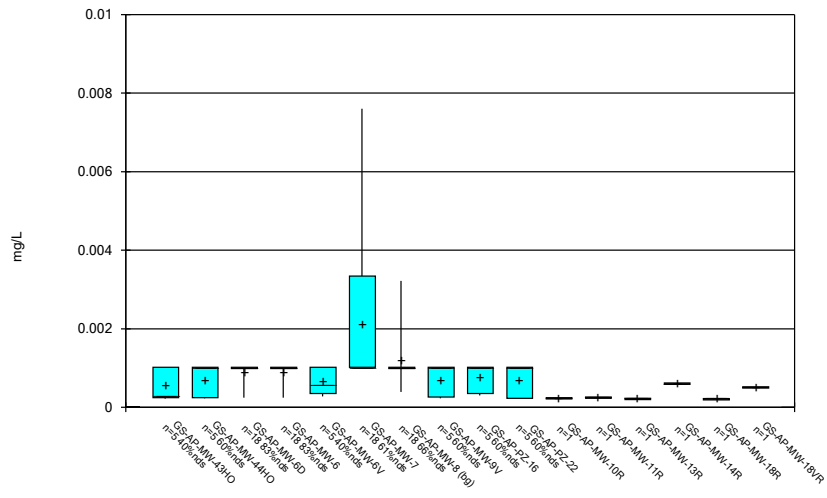
Constituent: Chromium Analysis Run 5/16/2022 2:09 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



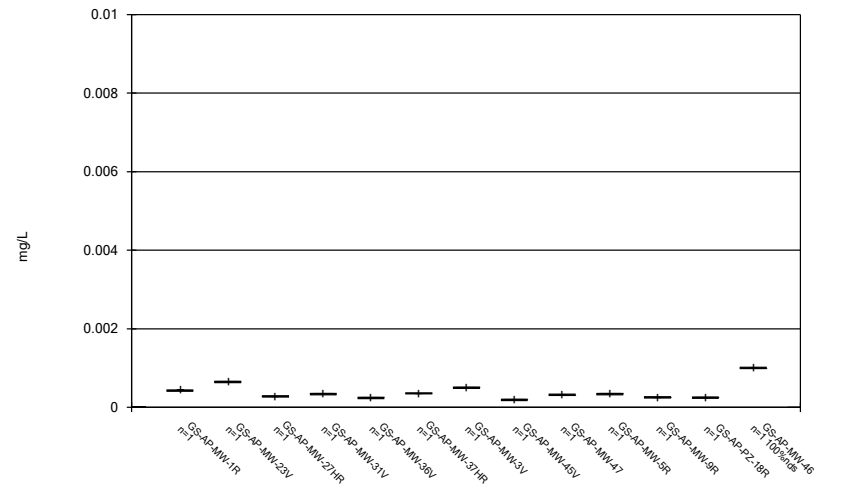
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



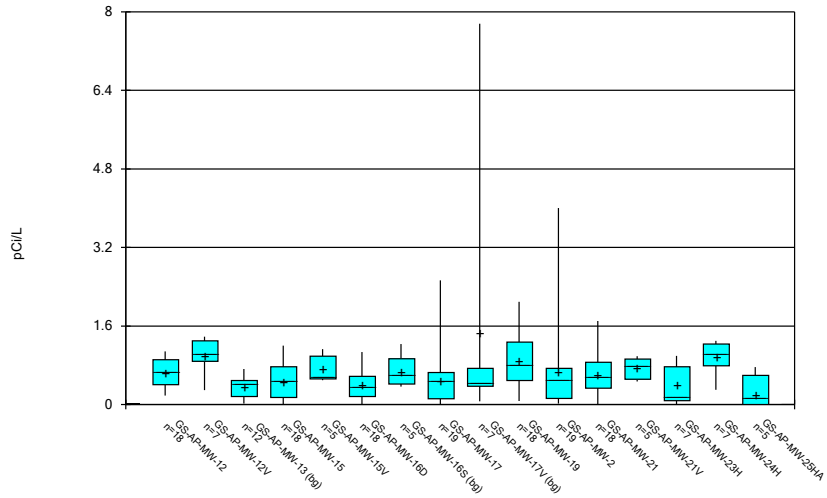
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



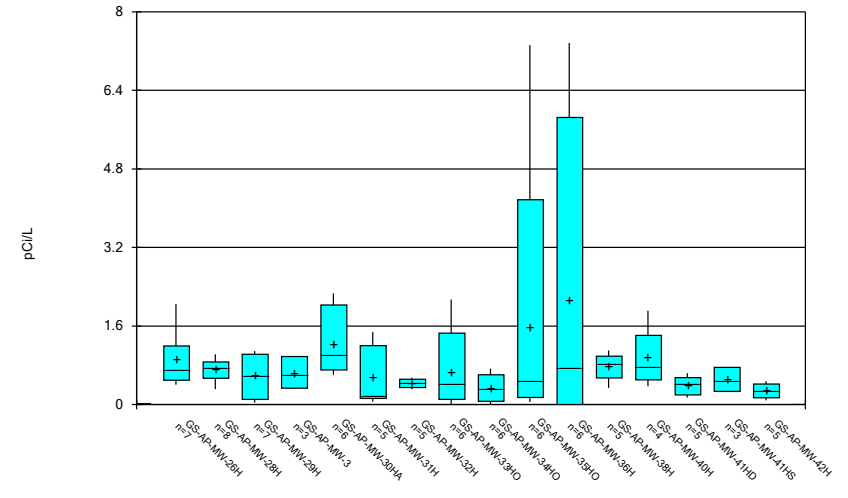
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



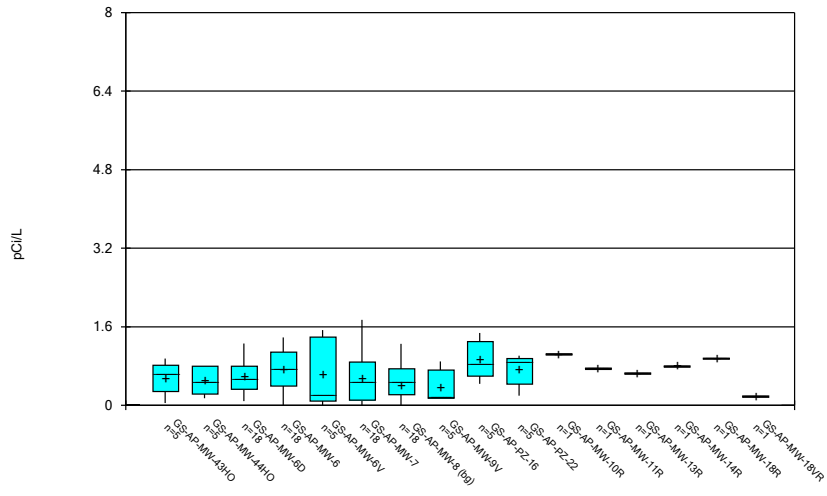
Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2022 2:09 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



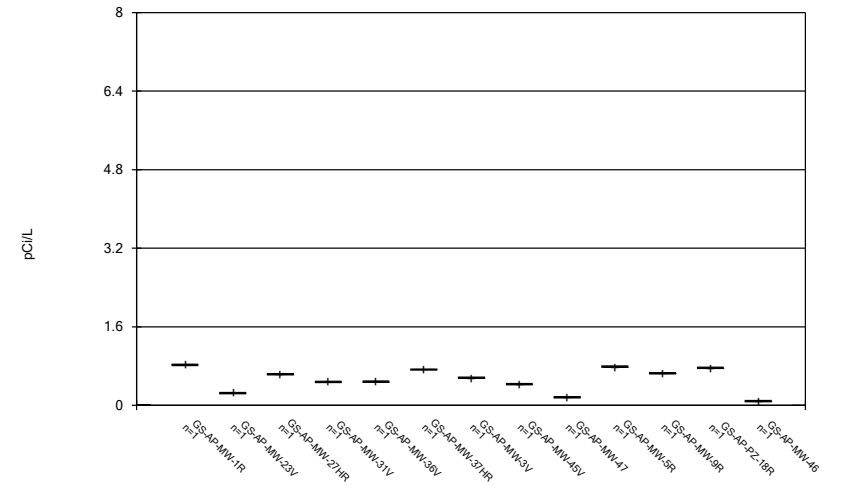
Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2022 2:09 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



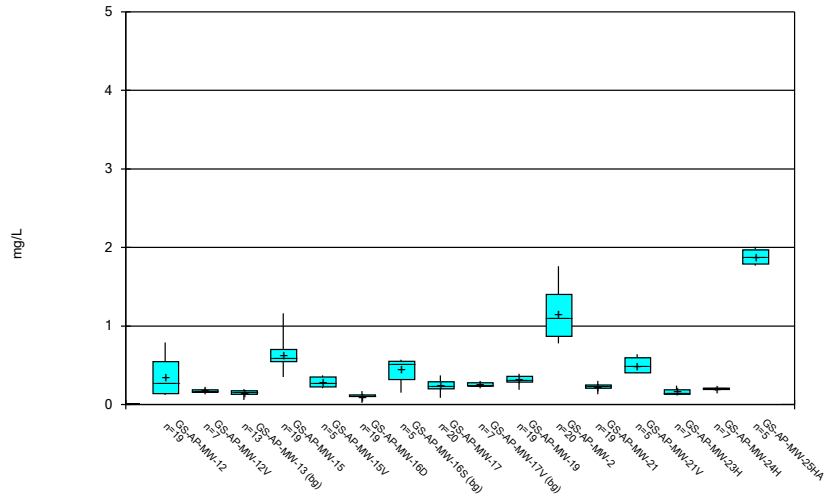
Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2022 2:09 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



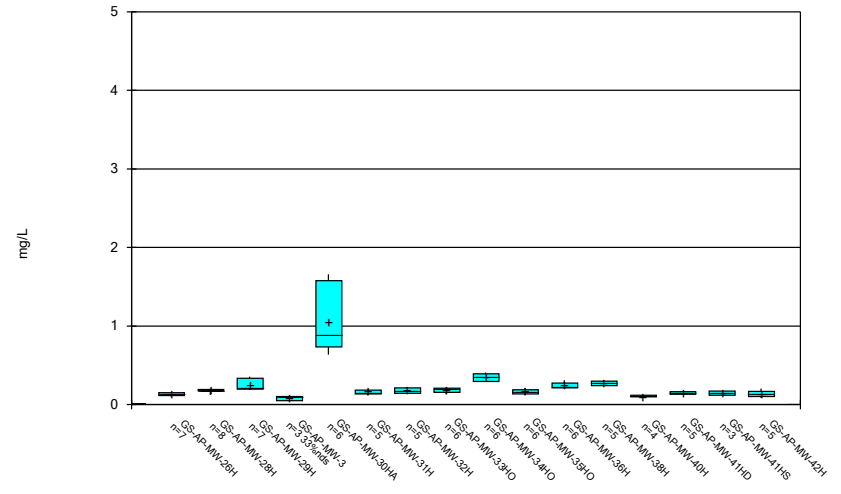
Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2022 2:09 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



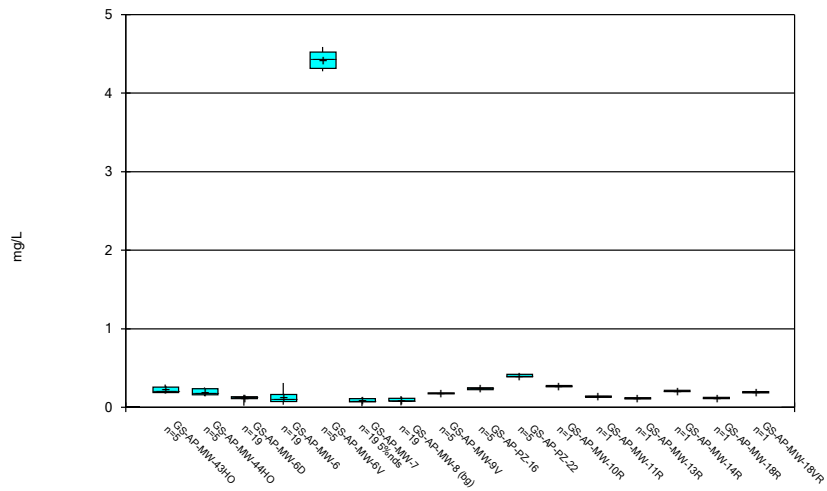
Constituent: Fluoride Analysis Run 5/16/2022 2:09 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



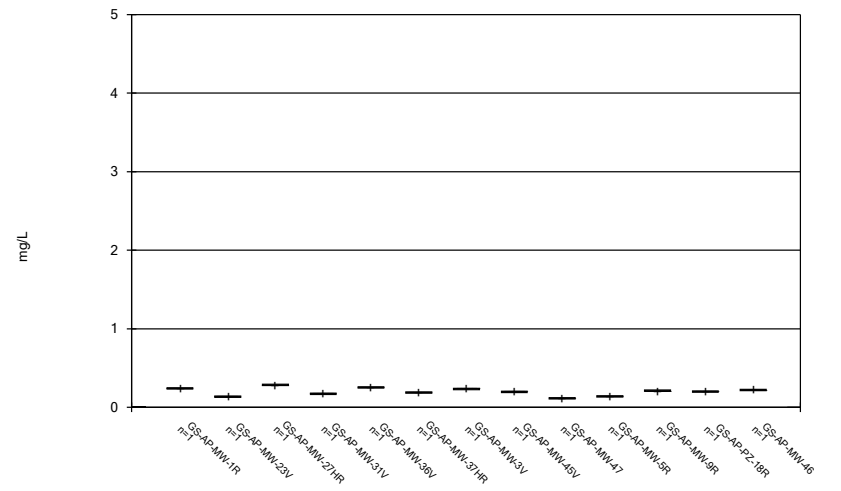
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



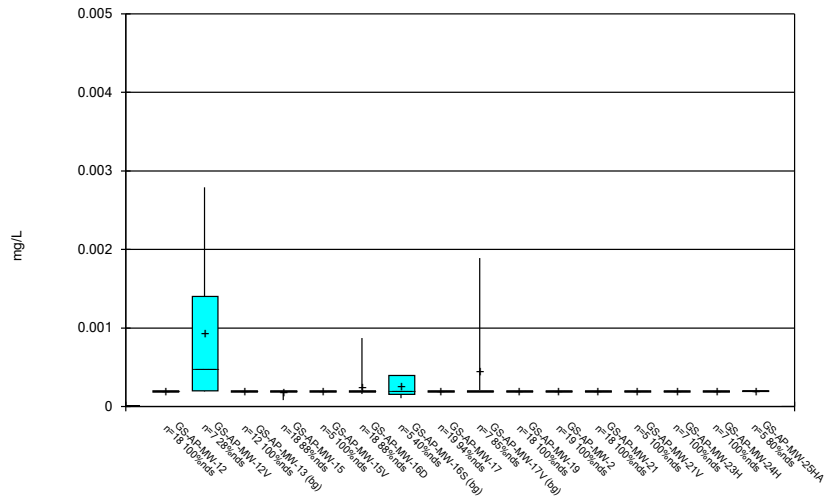
Constituent: Fluoride Analysis Run 5/16/2022 2:09 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



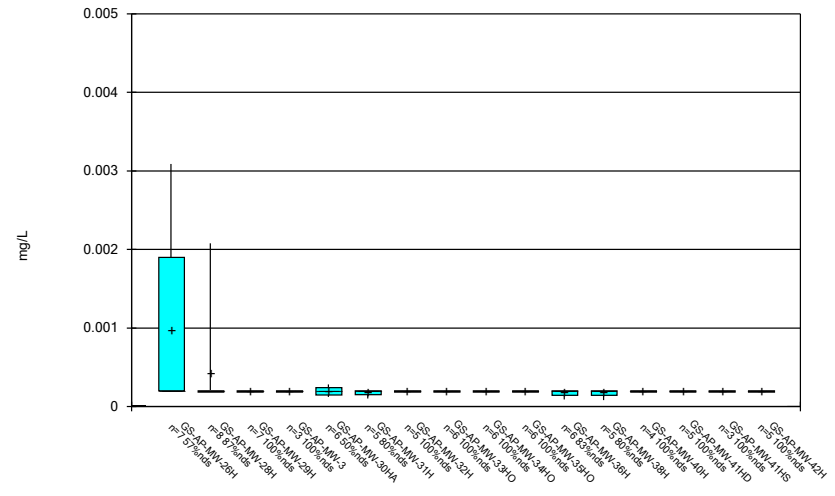
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



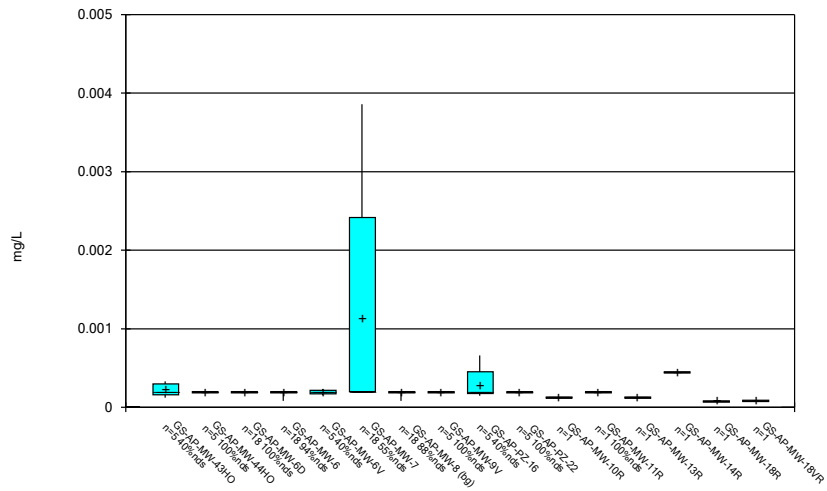
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



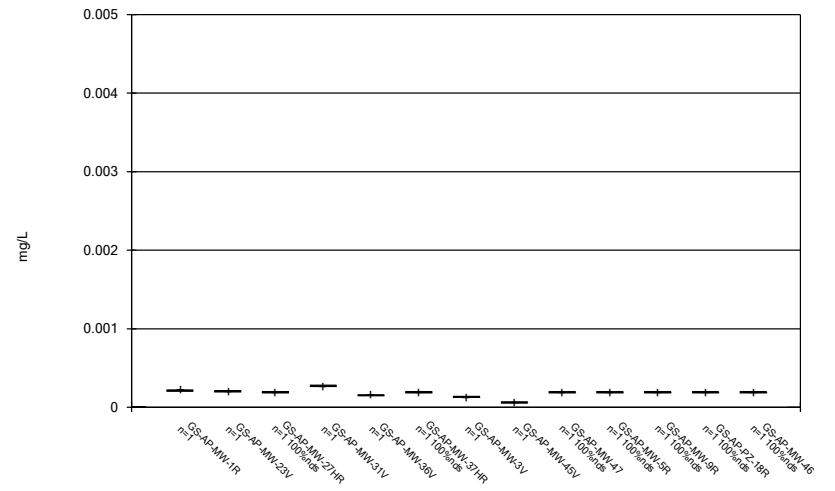
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



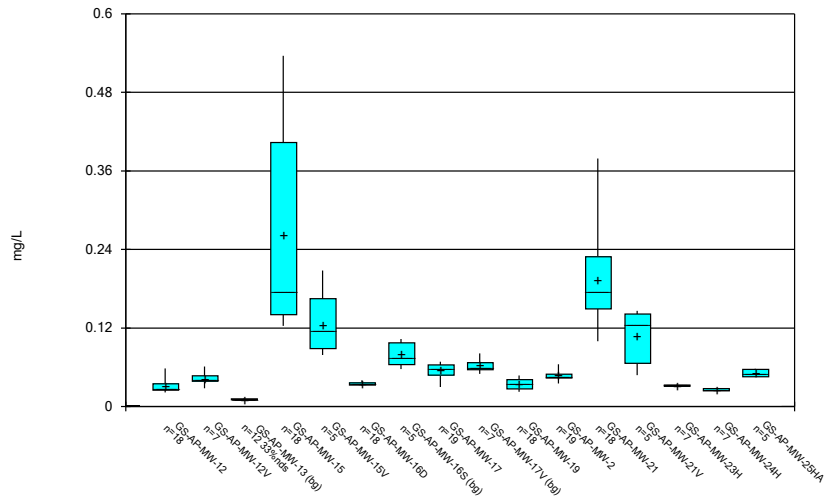
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



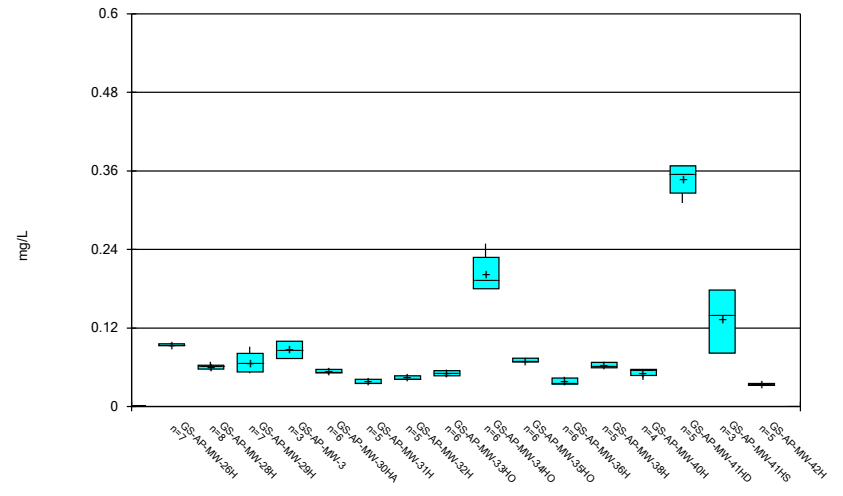
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



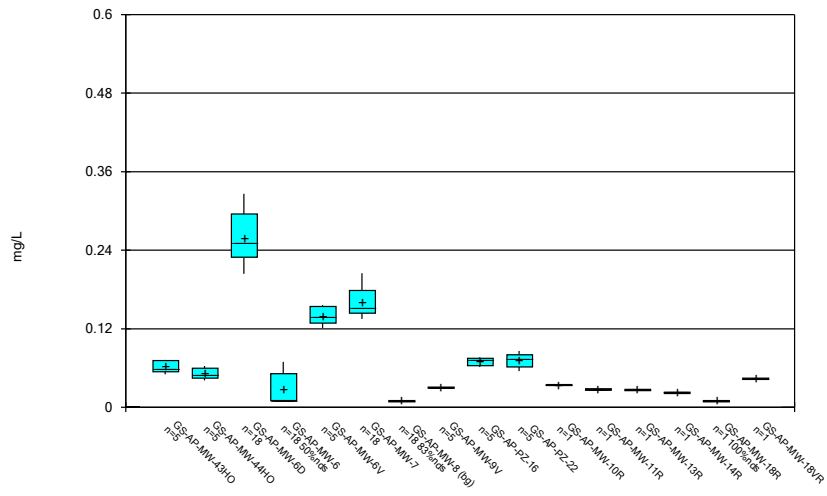
Constituent: Lithium Analysis Run 5/16/2022 2:10 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



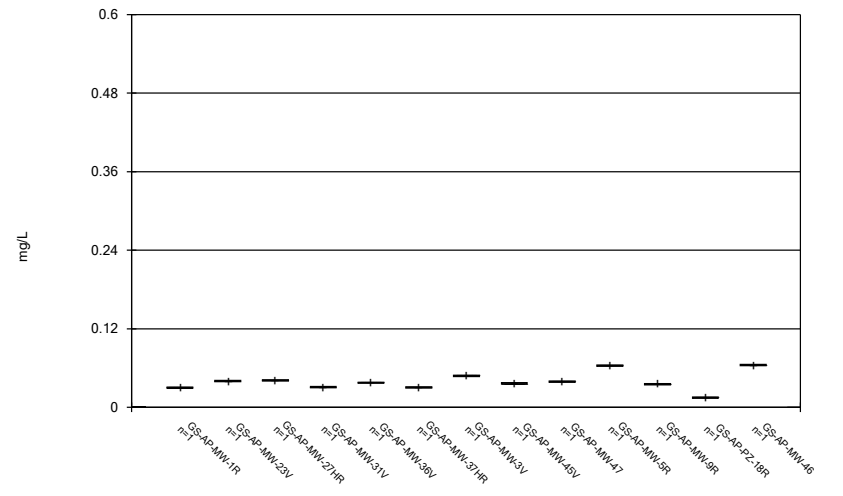
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



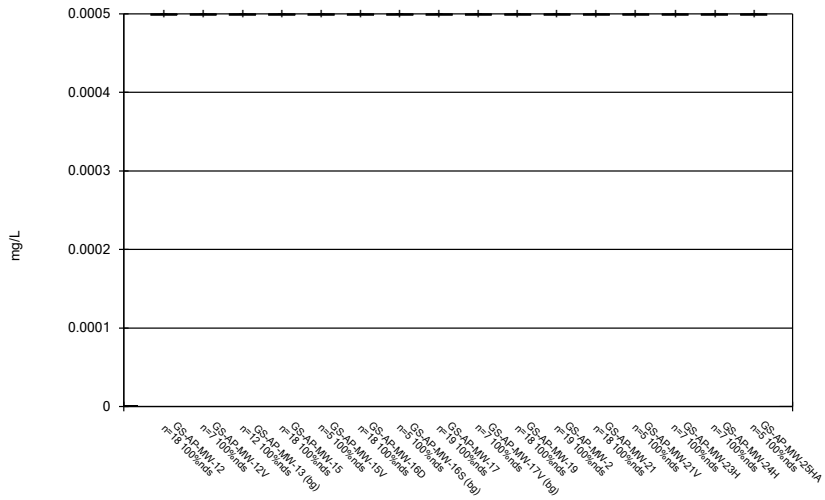
Constituent: Lithium Analysis Run 5/16/2022 2:10 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



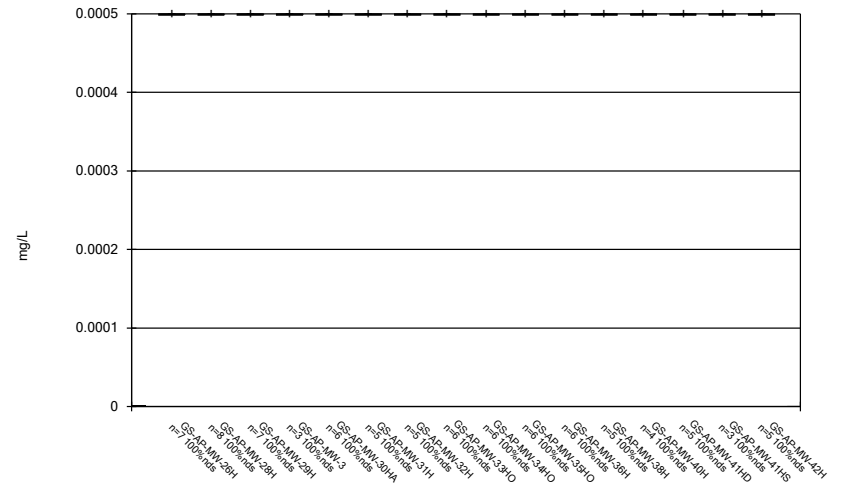
Constituent: Lithium Analysis Run 5/16/2022 2:10 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



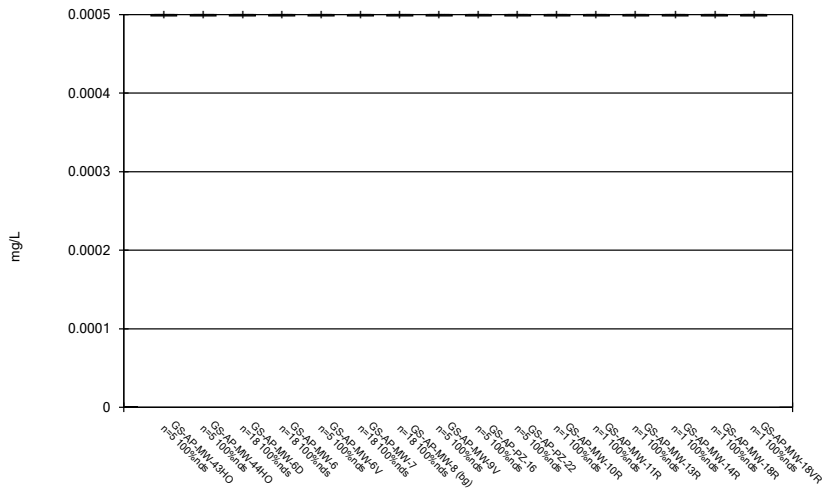
Constituent: Mercury Analysis Run 5/16/2022 2:10 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



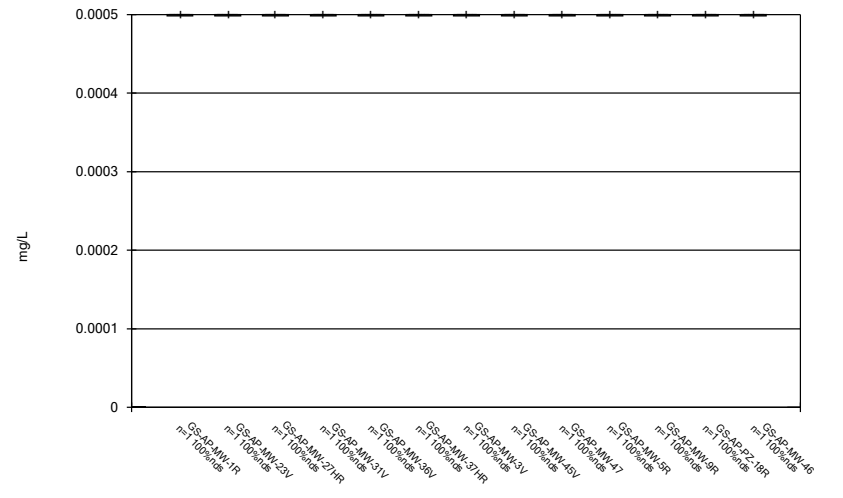
Constituent: Mercury Analysis Run 5/16/2022 2:10 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



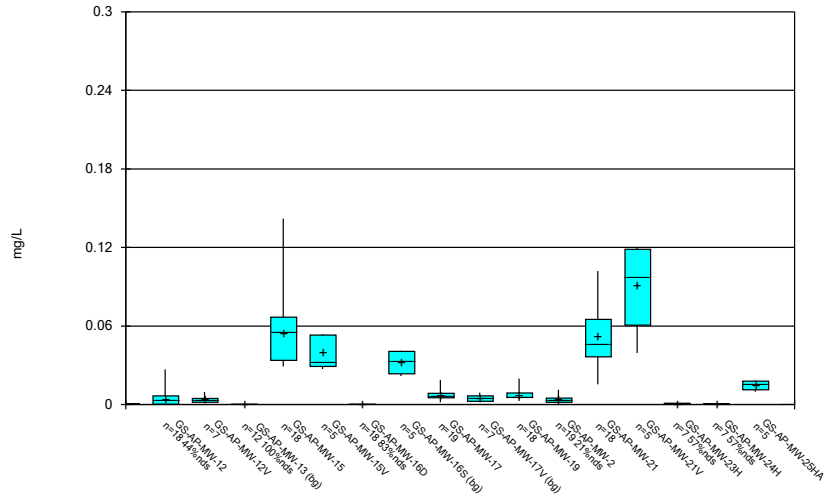
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



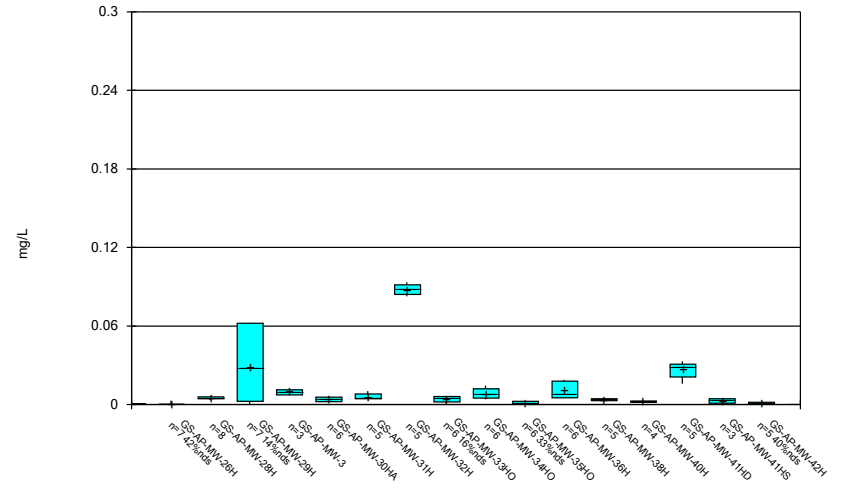
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



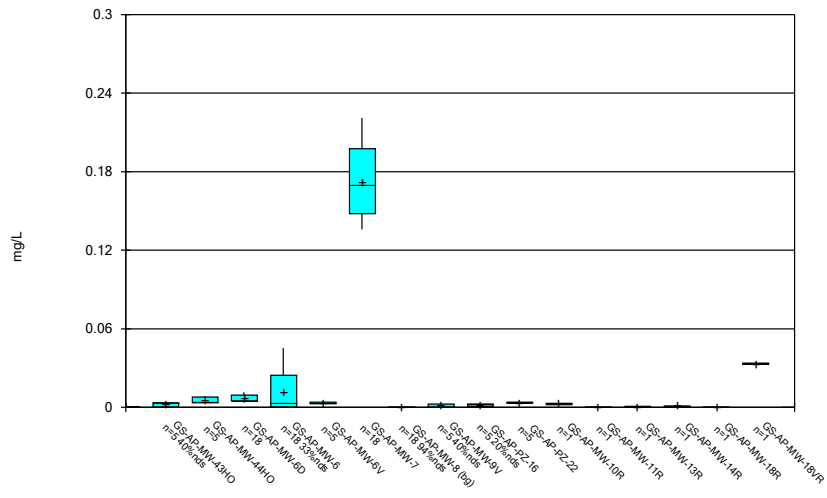
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



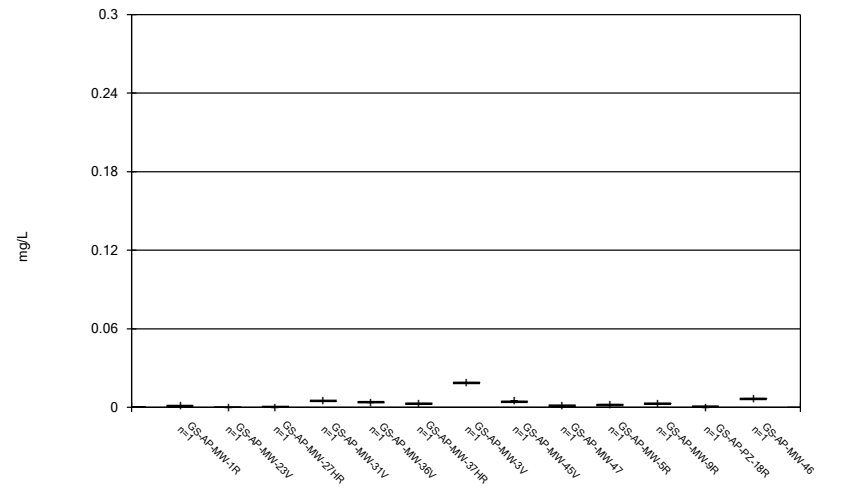
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



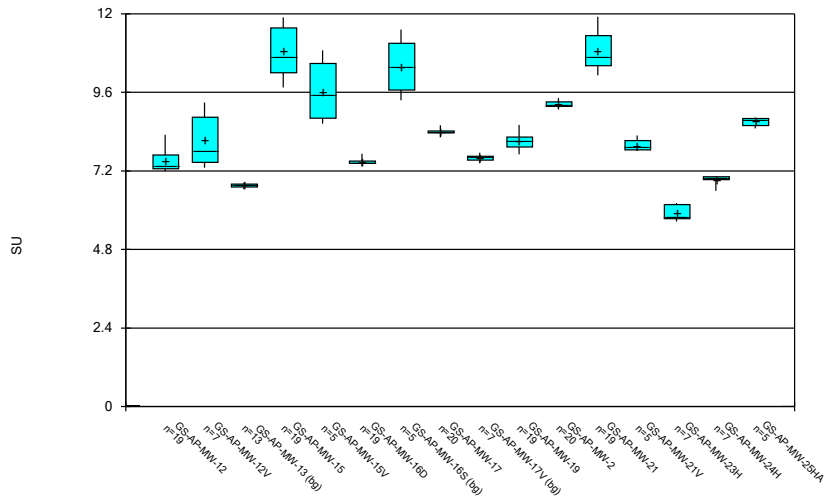
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot

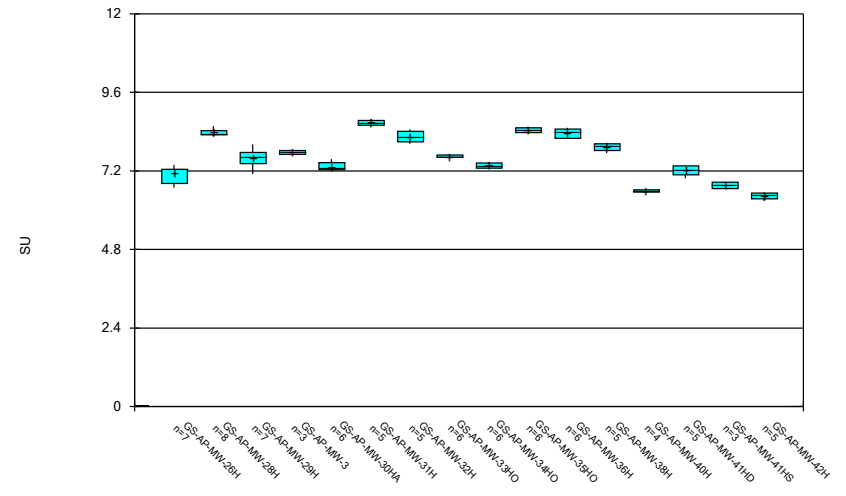


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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

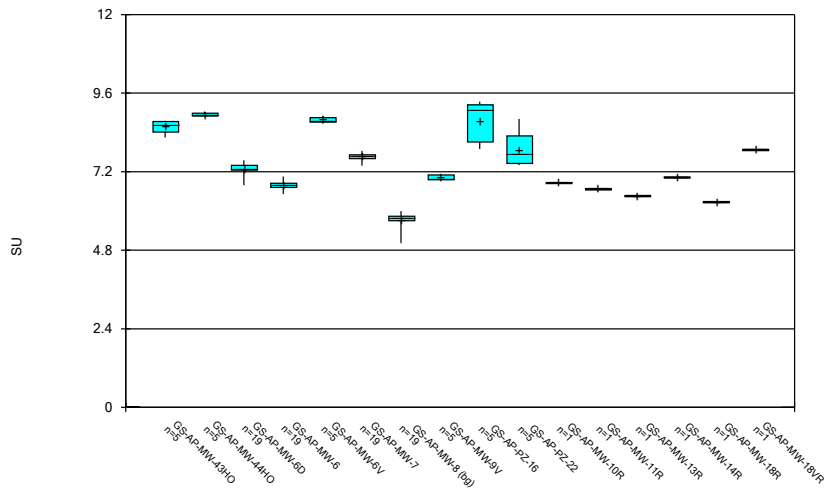
Box & Whiskers Plot



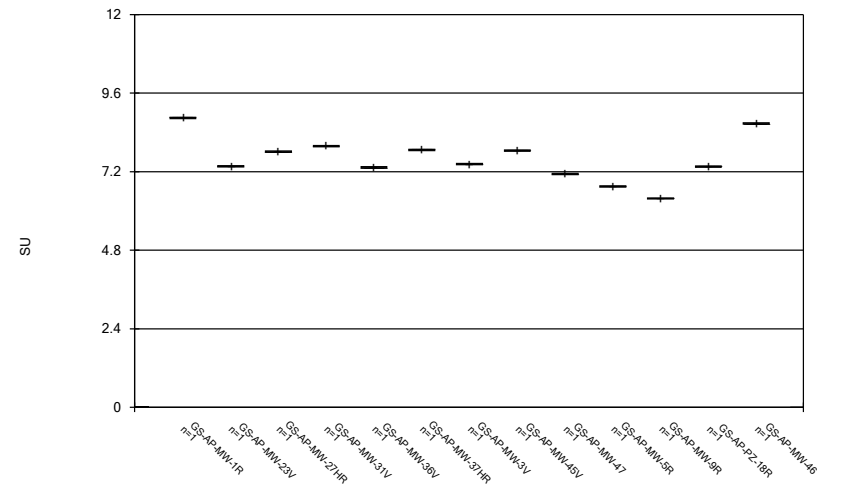
Box & Whiskers Plot



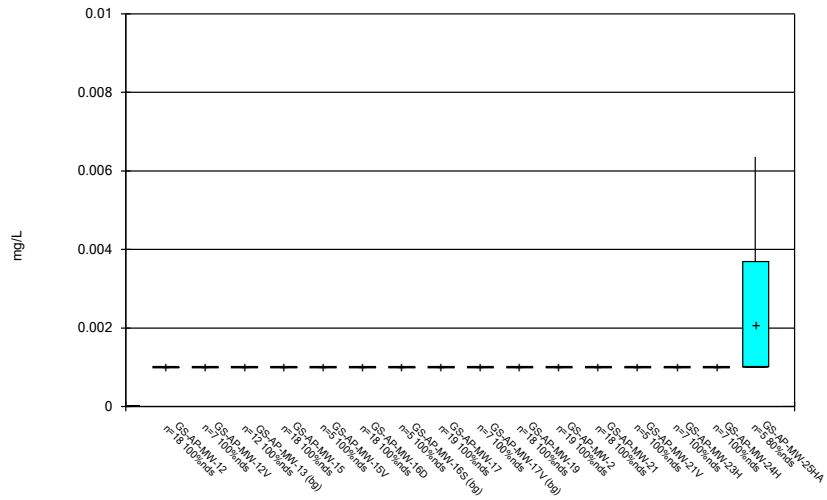
Box & Whiskers Plot



Box & Whiskers Plot

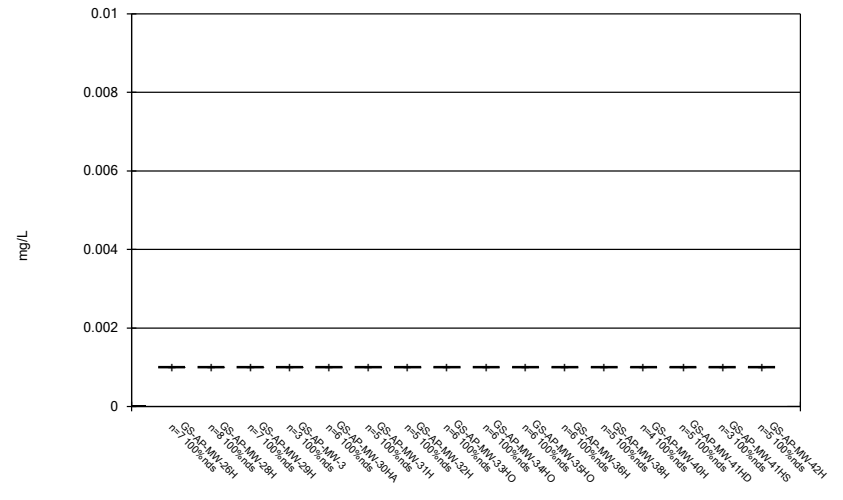


Box & Whiskers Plot



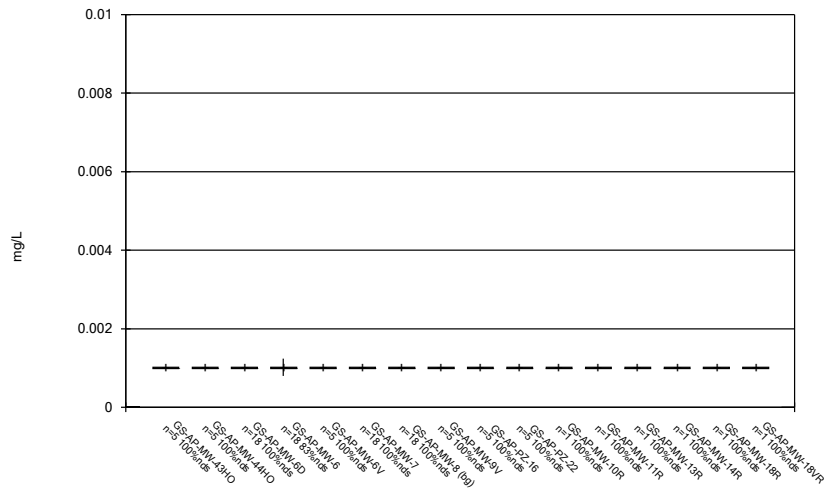
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Box & Whiskers Plot



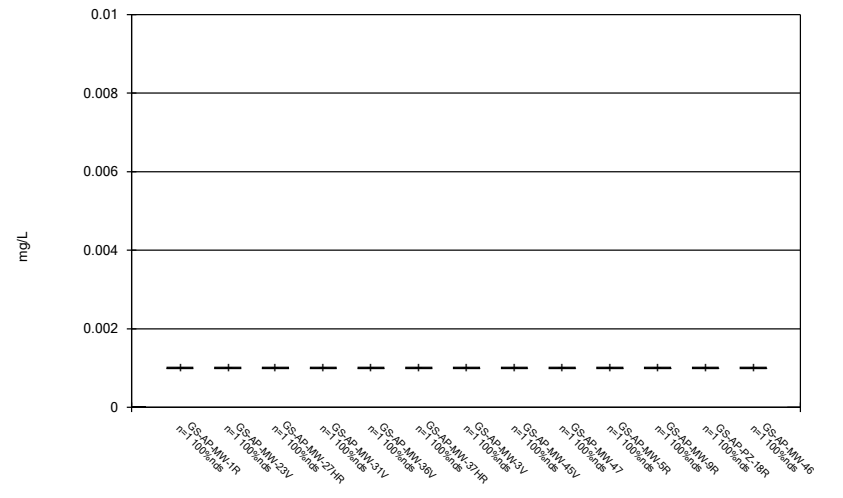
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



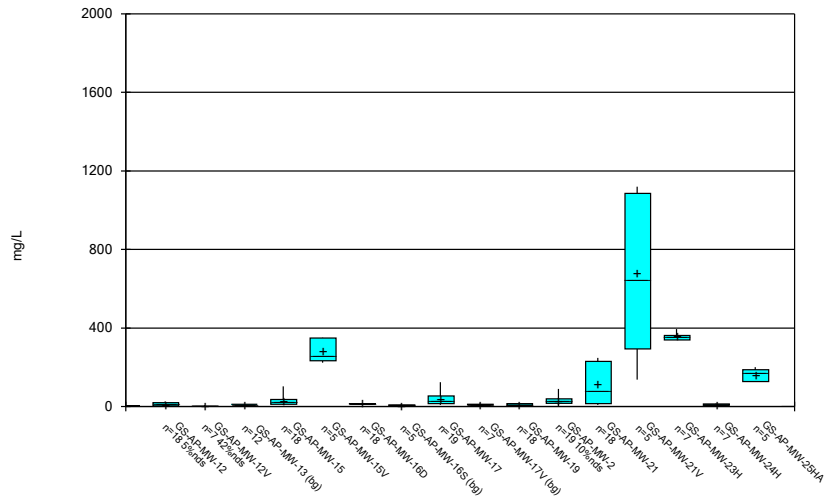
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



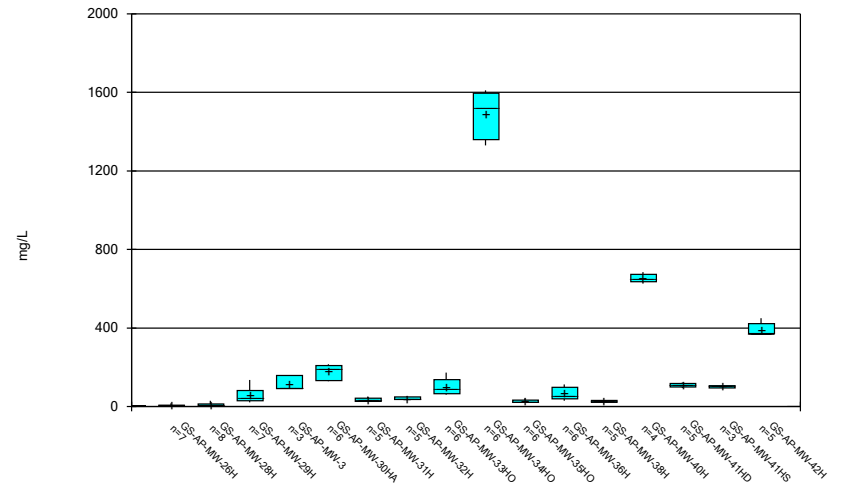
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



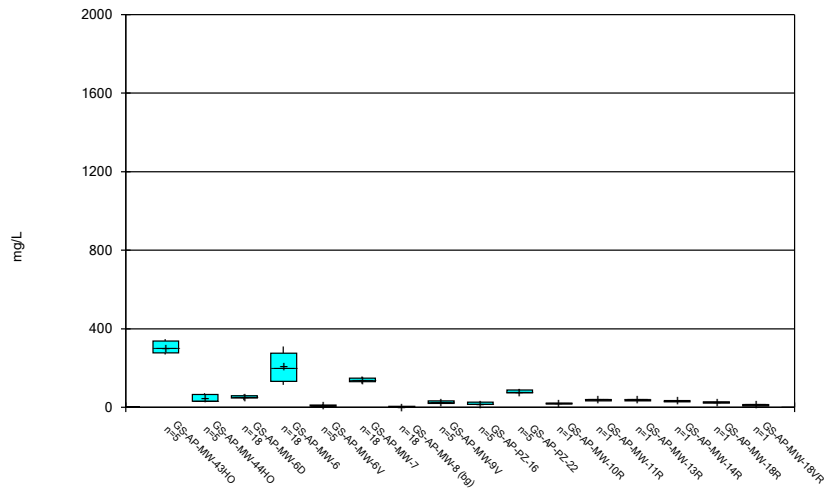
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Box & Whiskers Plot



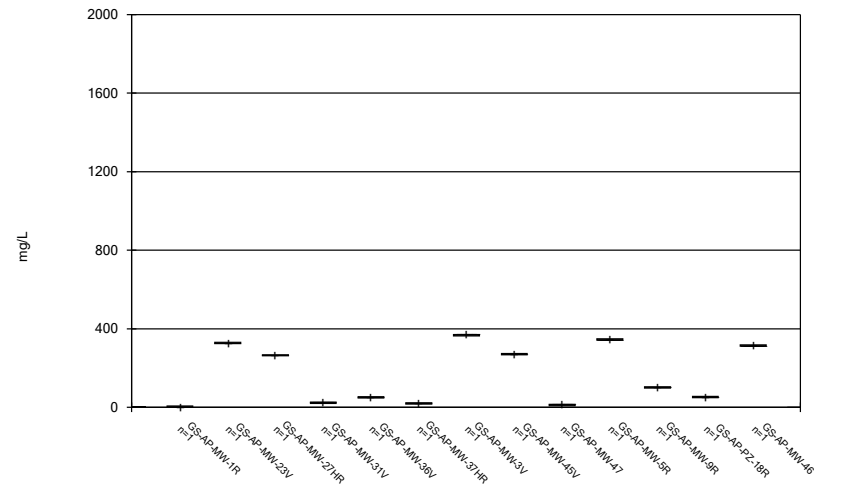
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



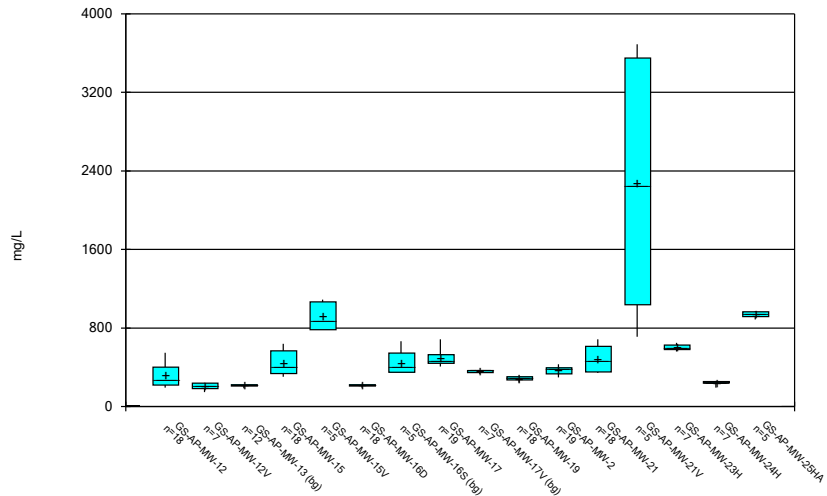
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



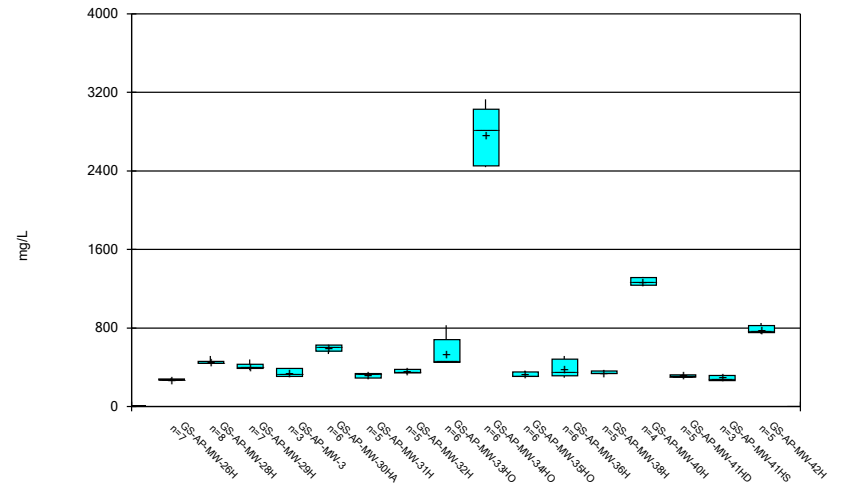
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



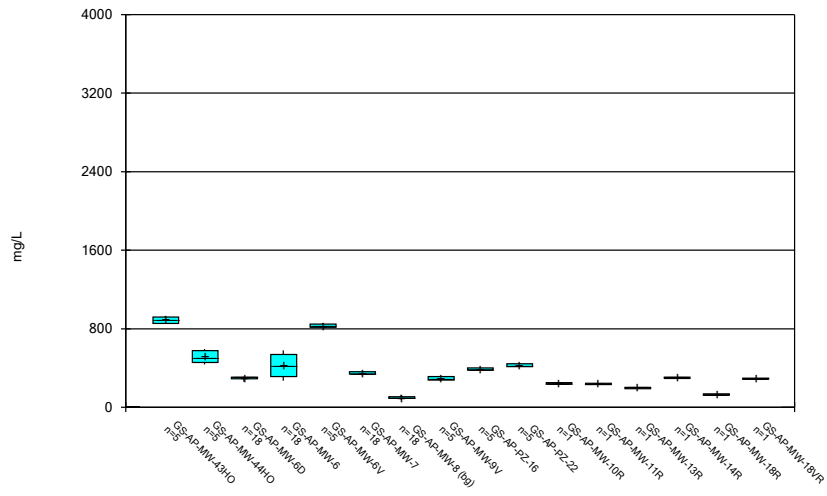
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



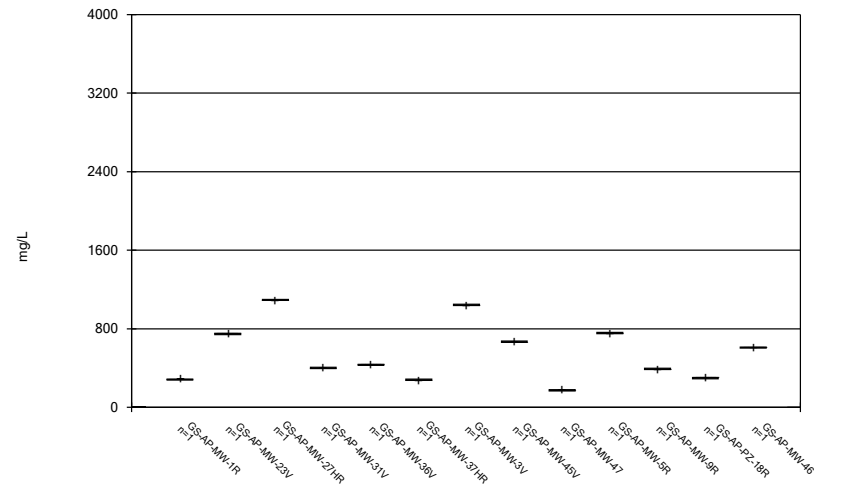
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



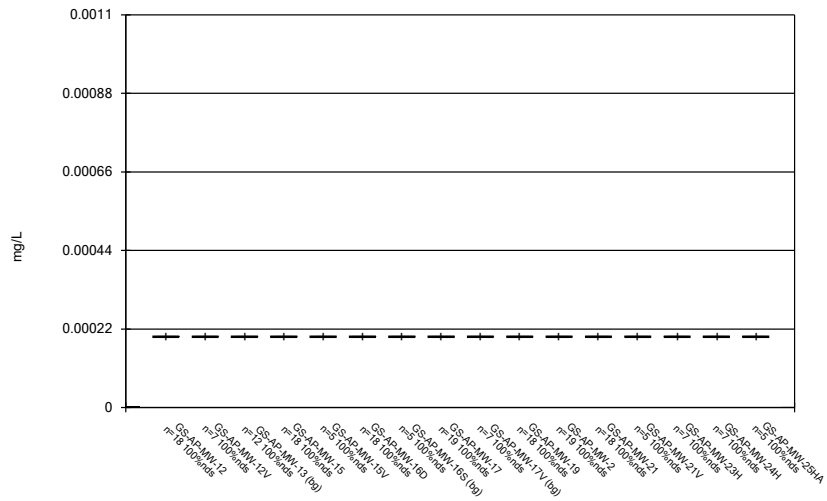
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



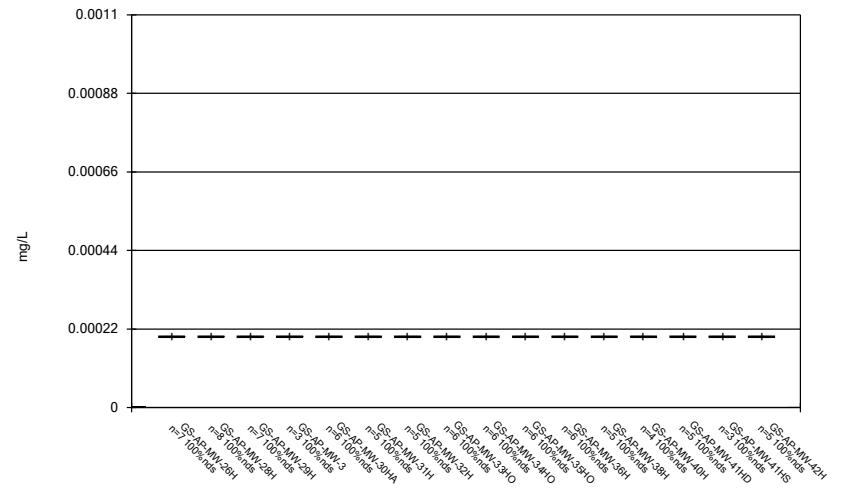
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



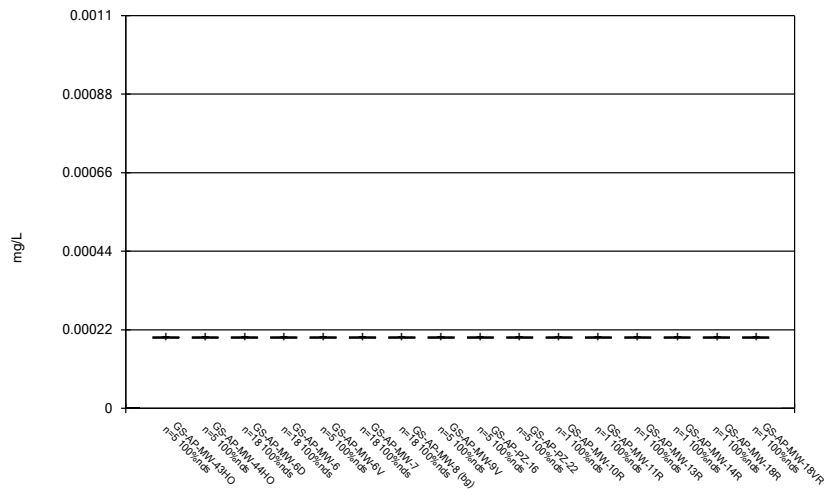
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Box & Whiskers Plot



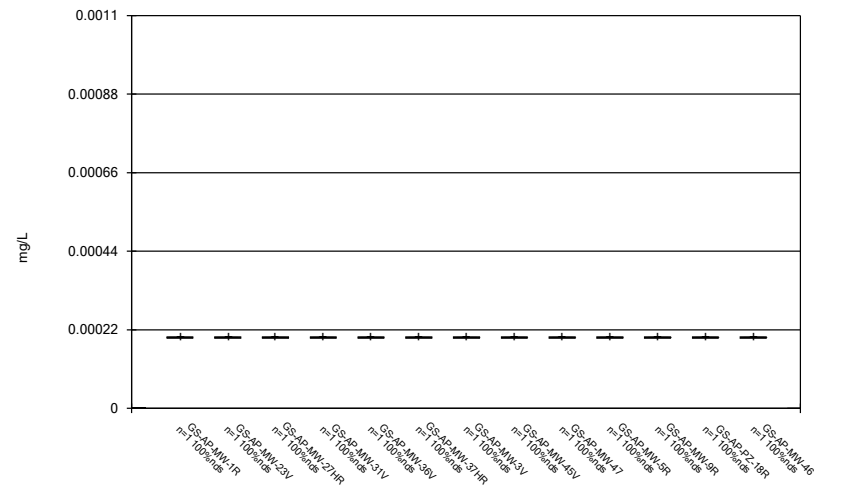
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/16/2022 2:10 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/16/2022 2:10 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

FIGURE C.

Outlier Summary

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 2:14 PM

GS-AP-MW-21 Boron (mg/L)

8/2/2016 0.176 (o)

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:02 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------|--------------|------------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L) | GS-AP-MW-2 | 0.1015 | n/a | 2/22/2022 | 0.112 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-21 | 0.1015 | n/a | 2/8/2022 | 0.111 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-3 | 0.1015 | n/a | 2/16/2022 | 0.311 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6D | 0.1015 | n/a | 2/14/2022 | 1.29 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6 | 0.1015 | n/a | 2/14/2022 | 0.978 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-7 | 0.1015 | n/a | 2/8/2022 | 1.69 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-19 | 48.1 | n/a | 2/22/2022 | 54.6 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-23H | 48.1 | n/a | 2/14/2022 | 74.4 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6D | 48.1 | n/a | 2/14/2022 | 55.7 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6 | 48.1 | n/a | 2/14/2022 | 60.1 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15 | 4.264 | n/a | 2/16/2022 | 5.86 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15V | 4.264 | n/a | 2/16/2022 | 129 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-17 | 4.264 | n/a | 2/14/2022 | 7.15 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-19 | 4.264 | n/a | 2/22/2022 | 4.59 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-2 | 4.264 | n/a | 2/22/2022 | 6.05 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-21 | 4.264 | n/a | 2/8/2022 | 41.4 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-23H | 4.264 | n/a | 2/14/2022 | 12.8 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-3 | 4.264 | n/a | 2/16/2022 | 14 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6D | 4.264 | n/a | 2/14/2022 | 11.7 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6 | 4.264 | n/a | 2/14/2022 | 20.6 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-7 | 4.264 | n/a | 2/8/2022 | 7.475 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-9V | 4.264 | n/a | 2/21/2022 | 18.4 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.2798 | n/a | 2/16/2022 | 0.349 | Yes | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.2798 | n/a | 2/22/2022 | 0.819 | Yes | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| pH (SU) | GS-AP-MW-12 | 7.76 | 5.02 | 2/28/2022 | 8.12 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15 | 7.76 | 5.02 | 2/16/2022 | 11.57 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15V | 7.76 | 5.02 | 2/16/2022 | 8.65 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-17 | 7.76 | 5.02 | 2/14/2022 | 8.32 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-2 | 7.76 | 5.02 | 2/22/2022 | 9.42 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-21 | 7.76 | 5.02 | 2/8/2022 | 10.26 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-3 | 7.76 | 5.02 | 2/16/2022 | 7.78 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-12 | 15.2 | n/a | 2/28/2022 | 17.9 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-15V | 15.2 | n/a | 2/16/2022 | 224 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-2 | 15.2 | n/a | 2/22/2022 | 17.1 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-21 | 15.2 | n/a | 2/8/2022 | 241 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-23H | 15.2 | n/a | 2/14/2022 | 356 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-3 | 15.2 | n/a | 2/16/2022 | 91.2 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6D | 15.2 | n/a | 2/14/2022 | 58.3 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6 | 15.2 | n/a | 2/14/2022 | 115 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-7 | 15.2 | n/a | 2/8/2022 | 137 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-9V | 15.2 | n/a | 2/21/2022 | 32.4 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15 | 368 | n/a | 2/16/2022 | 426 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15V | 368 | n/a | 2/16/2022 | 782 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-17 | 368 | n/a | 2/14/2022 | 448 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-21 | 368 | n/a | 2/8/2022 | 570 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-23H | 368 | n/a | 2/14/2022 | 592 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |

Interwell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:02 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|------------------------|---------------------|---------------|------------|------------------|--------------|------------|-----------|---------------|----------------|--------------|-------------|------------|------------------|------------------------------------|
| Boron (mg/L) | GS-AP-MW-12 | 0.1015 | n/a | 2/28/2022 | 0.0305J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-12V | 0.1015 | n/a | 2/23/2022 | 0.1015ND | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-15 | 0.1015 | n/a | 2/16/2022 | 0.0323J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-15V | 0.1015 | n/a | 2/16/2022 | 0.0594J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-16D | 0.1015 | n/a | 2/15/2022 | 0.1015ND | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-17 | 0.1015 | n/a | 2/14/2022 | 0.073J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-19 | 0.1015 | n/a | 2/22/2022 | 0.1015ND | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-2 | 0.1015 | n/a | 2/22/2022 | 0.112 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-21 | 0.1015 | n/a | 2/8/2022 | 0.111 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-23H | 0.1015 | n/a | 2/14/2022 | 0.035J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-3 | 0.1015 | n/a | 2/16/2022 | 0.311 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6D | 0.1015 | n/a | 2/14/2022 | 1.29 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6 | 0.1015 | n/a | 2/14/2022 | 0.978 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-7 | 0.1015 | n/a | 2/8/2022 | 1.69 | Yes | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-9V | 0.1015 | n/a | 2/21/2022 | 0.0349J | No | 37 | n/a | n/a | 78.38 | n/a | n/a | 0.001285 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-12 | 48.1 | n/a | 2/28/2022 | 37.9 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-12V | 48.1 | n/a | 2/23/2022 | 46.3 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-15 | 48.1 | n/a | 2/16/2022 | 6.76 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-15V | 48.1 | n/a | 2/16/2022 | 14.3 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-16D | 48.1 | n/a | 2/15/2022 | 31.5 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-17 | 48.1 | n/a | 2/14/2022 | 2.17 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-19 | 48.1 | n/a | 2/22/2022 | 54.6 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-2 | 48.1 | n/a | 2/22/2022 | 0.413 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-21 | 48.1 | n/a | 2/8/2022 | 1.98 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-23H | 48.1 | n/a | 2/14/2022 | 74.4 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-3 | 48.1 | n/a | 2/16/2022 | 18.6 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6D | 48.1 | n/a | 2/14/2022 | 55.7 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6 | 48.1 | n/a | 2/14/2022 | 60.1 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-7 | 48.1 | n/a | 2/8/2022 | 10.7 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-9V | 48.1 | n/a | 2/21/2022 | 47.7 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-12 | 4.264 | n/a | 2/28/2022 | 3.34 | No | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-12V | 4.264 | n/a | 2/23/2022 | 3.83 | No | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15 | 4.264 | n/a | 2/16/2022 | 5.86 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15V | 4.264 | n/a | 2/16/2022 | 129 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-16D | 4.264 | n/a | 2/15/2022 | 3.58 | No | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-17 | 4.264 | n/a | 2/14/2022 | 7.15 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-19 | 4.264 | n/a | 2/22/2022 | 4.59 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-2 | 4.264 | n/a | 2/22/2022 | 6.05 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-21 | 4.264 | n/a | 2/8/2022 | 41.4 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-23H | 4.264 | n/a | 2/14/2022 | 12.8 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-3 | 4.264 | n/a | 2/16/2022 | 14 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6D | 4.264 | n/a | 2/14/2022 | 11.7 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6 | 4.264 | n/a | 2/14/2022 | 20.6 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-7 | 4.264 | n/a | 2/8/2022 | 7.475 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-9V | 4.264 | n/a | 2/21/2022 | 18.4 | Yes | 37 | 3.369 | 0.4244 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-12 | 0.2798 | n/a | 2/28/2022 | 0.12 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-12V | 0.2798 | n/a | 2/23/2022 | 0.153 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.2798 | n/a | 2/16/2022 | 0.349 | Yes | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-15V | 0.2798 | n/a | 2/16/2022 | 0.208 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-16D | 0.2798 | n/a | 2/15/2022 | 0.114 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-17 | 0.2798 | n/a | 2/14/2022 | 0.206 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-19 | 0.2798 | n/a | 2/22/2022 | 0.259 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.2798 | n/a | 2/22/2022 | 0.819 | Yes | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-21 | 0.2798 | n/a | 2/8/2022 | 0.175 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-23H | 0.2798 | n/a | 2/14/2022 | 0.14 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |

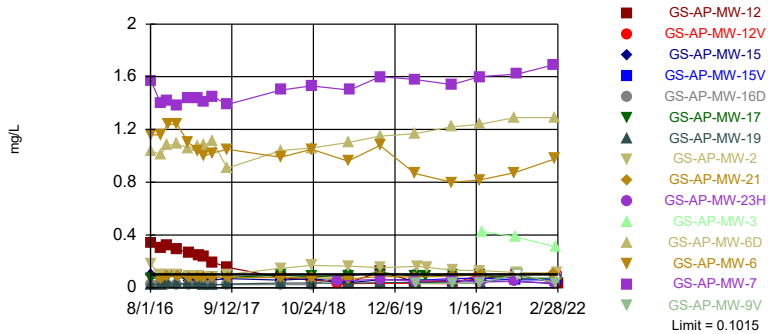
Interwell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:02 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|---------------------|-------------|-------------|------------------|--------------|------------|-----------|------------|------------|----------|------------|------------|-----------------|------------------------------------|
| Fluoride (mg/L) | GS-AP-MW-3 | 0.2798 | n/a | 2/16/2022 | 0.05ND | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-6D | 0.2798 | n/a | 2/14/2022 | 0.108 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-6 | 0.2798 | n/a | 2/14/2022 | 0.164 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-7 | 0.2798 | n/a | 2/8/2022 | 0.0872J | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-9V | 0.2798 | n/a | 2/21/2022 | 0.177 | No | 39 | 0.1399 | 0.06663 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| pH (SU) | GS-AP-MW-12 | 7.76 | 5.02 | 2/28/2022 | 8.12 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-12V | 7.76 | 5.02 | 2/23/2022 | 7.73 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15 | 7.76 | 5.02 | 2/16/2022 | 11.57 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15V | 7.76 | 5.02 | 2/16/2022 | 8.65 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-16D | 7.76 | 5.02 | 2/15/2022 | 7.48 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-17 | 7.76 | 5.02 | 2/14/2022 | 8.32 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-19 | 7.76 | 5.02 | 2/22/2022 | 7.71 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-2 | 7.76 | 5.02 | 2/22/2022 | 9.42 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-21 | 7.76 | 5.02 | 2/8/2022 | 10.26 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-23H | 7.76 | 5.02 | 2/14/2022 | 5.8 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-3 | 7.76 | 5.02 | 2/16/2022 | 7.78 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-6D | 7.76 | 5.02 | 2/14/2022 | 7.43 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-6 | 7.76 | 5.02 | 2/14/2022 | 6.99 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-7 | 7.76 | 5.02 | 2/8/2022 | 7.71 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-9V | 7.76 | 5.02 | 2/21/2022 | 7 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.002327 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-12 | 15.2 | n/a | 2/28/2022 | 17.9 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-12V | 15.2 | n/a | 2/23/2022 | 0.741J | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-15 | 15.2 | n/a | 2/16/2022 | 7.37 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-15V | 15.2 | n/a | 2/16/2022 | 224 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-16D | 15.2 | n/a | 2/15/2022 | 14.7 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-17 | 15.2 | n/a | 2/14/2022 | 14.4 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-19 | 15.2 | n/a | 2/22/2022 | 13.7 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-2 | 15.2 | n/a | 2/22/2022 | 17.1 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-21 | 15.2 | n/a | 2/8/2022 | 241 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-23H | 15.2 | n/a | 2/14/2022 | 356 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-3 | 15.2 | n/a | 2/16/2022 | 91.2 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6D | 15.2 | n/a | 2/14/2022 | 58.3 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6 | 15.2 | n/a | 2/14/2022 | 115 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-7 | 15.2 | n/a | 2/8/2022 | 137 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-9V | 15.2 | n/a | 2/21/2022 | 32.4 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-12 | 368 | n/a | 2/28/2022 | 195 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-12V | 368 | n/a | 2/23/2022 | 209 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15 | 368 | n/a | 2/16/2022 | 426 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15V | 368 | n/a | 2/16/2022 | 782 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-16D | 368 | n/a | 2/15/2022 | 214 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-17 | 368 | n/a | 2/14/2022 | 448 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-19 | 368 | n/a | 2/22/2022 | 304 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-2 | 368 | n/a | 2/22/2022 | 295 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-21 | 368 | n/a | 2/8/2022 | 570 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-23H | 368 | n/a | 2/14/2022 | 592 | Yes | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-3 | 368 | n/a | 2/16/2022 | 307 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-6D | 368 | n/a | 2/14/2022 | 297 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-6 | 368 | n/a | 2/14/2022 | 299 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-7 | 368 | n/a | 2/8/2022 | 325 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-9V | 368 | n/a | 2/21/2022 | 299 | No | 37 | n/a | n/a | 0 | n/a | n/a | 0.001285 | NP Inter (normality) 1 of 2 |

Exceeds Limit: GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-6, GS-AP-MW-7

Prediction Limit
Interwell Non-parametric

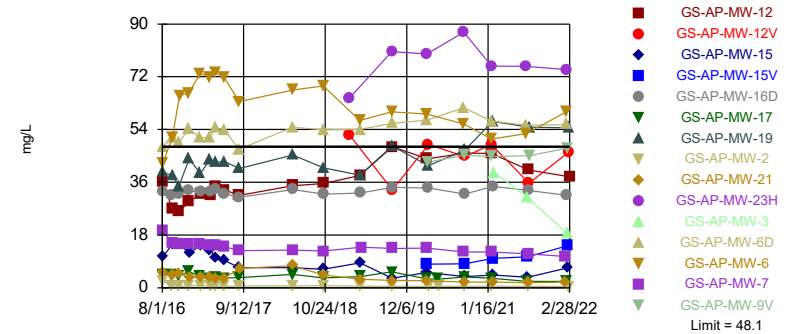


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 37 background values. 78.38% NDs. Annual per-constituent alpha = 0.02789. Individual comparison alpha = 0.001285 (1 of 2). Comparing 15 points to limit.

Constituent: Boron Analysis Run 5/16/2022 3:59 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limit: GS-AP-MW-19, GS-AP-MW-23H, GS-AP-MW-6D, GS-AP-MW-6

Prediction Limit
Interwell Non-parametric

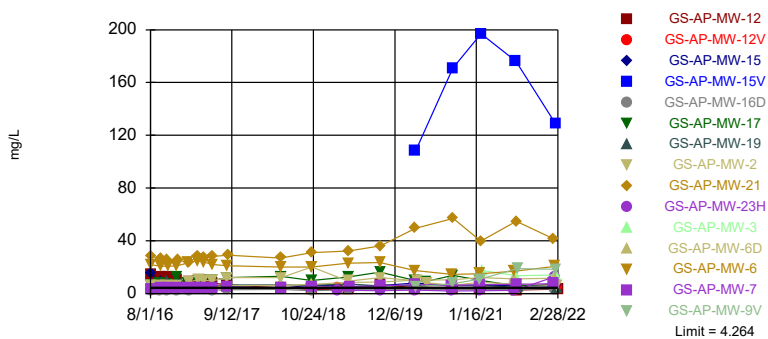


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. Annual per-constituent alpha = 0.02789. Individual comparison alpha = 0.001285 (1 of 2). Comparing 15 points to limit.

Constituent: Calcium Analysis Run 5/16/2022 3:59 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limit: GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-23H...

Prediction Limit
Interwell Parametric

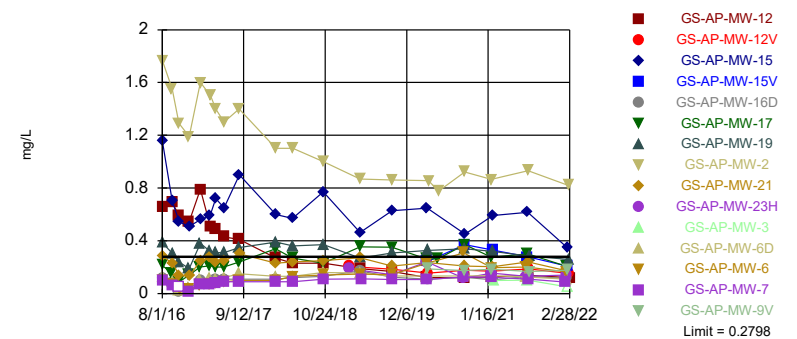


Background Data Summary: Mean=3.369, Std. Dev.=0.4244, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9656, critical = 0.914. Kappa = 2.109 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0006839. Comparing 15 points to limit.

Constituent: Chloride Analysis Run 5/16/2022 3:59 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limit: GS-AP-MW-15, GS-AP-MW-2

Prediction Limit
Interwell Parametric

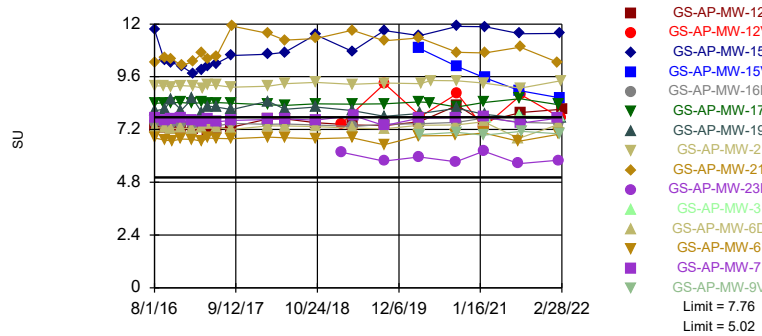


Background Data Summary: Mean=0.1399, Std. Dev.=0.06663, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9407, critical = 0.917. Kappa = 2.099 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0006839. Comparing 15 points to limit.

Constituent: Fluoride Analysis Run 5/16/2022 3:59 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limits: GS-AP-MW-12, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-17, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-3

Prediction Limit
Interwell Non-parametric

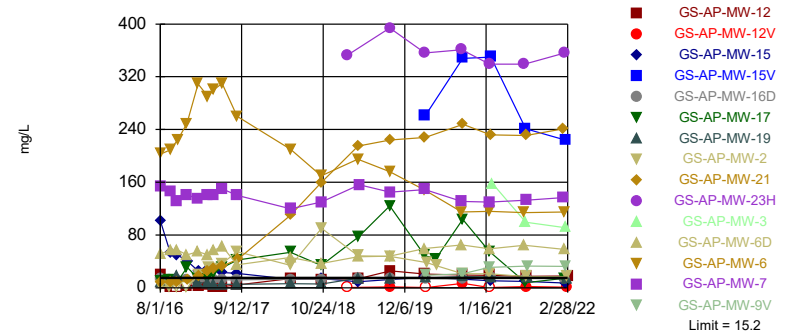


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 39 background values. Annual per-constituent alpha = 0.05057. Individual comparison alpha = 0.002327 (1 of 2). Comparing 15 points to limit.

Constituent: pH Analysis Run 5/16/2022 3:59 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limit: GS-AP-MW-12, GS-AP-MW-15V, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-23H, GS-AP-MW-3, GS-AP-MW-6D,...

Prediction Limit
Interwell Non-parametric

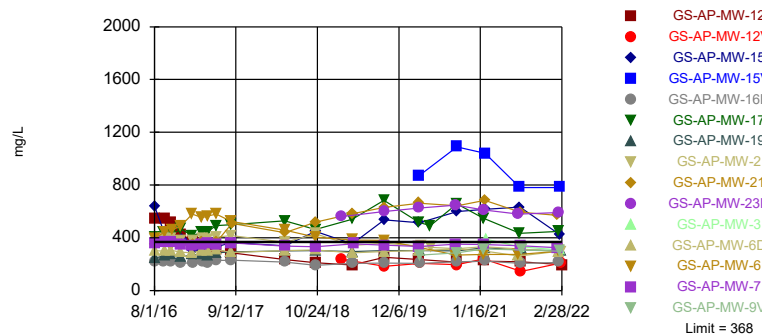


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. Annual per-constituent alpha = 0.02789. Individual comparison alpha = 0.001285 (1 of 2). Comparing 15 points to limit.

Constituent: Sulfate Analysis Run 5/16/2022 3:59 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limit: GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-17, GS-AP-MW-21, GS-AP-MW-23H

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. Annual per-constituent alpha = 0.02789. Individual comparison alpha = 0.001285 (1 of 2). Comparing 15 points to limit.

Constituent: TDS Analysis Run 5/16/2022 3:59 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-8 (bg) | GS-AP-MW-6 |
|------------|-------------|-------------|--------------|-------------|------------|------------|------------------|-----------------|------------|
| 8/1/2016 | 0.0279 (J) | 0.0712 (J) | 0.0266 (J) | 0.0955 (J) | | | | | |
| 8/2/2016 | | | | | 0.178 | 1.57 | <0.1015 | | |
| 8/3/2016 | | | | | | | | 0.0239 (J) | 1.16 |
| 9/19/2016 | | 0.0716 (J) | 0.0262 (J) | | 0.0937 (J) | | | | |
| 9/20/2016 | | | | 0.0706 (J) | | | <0.1015 | | 1.16 |
| 9/21/2016 | 0.0235 (J) | | | | | 1.4 | | <0.1015 | |
| 10/24/2016 | 0.0444 (J) | 0.0858 (J) | | | 0.0986 (J) | 1.42 | | | |
| 10/25/2016 | | | 0.0273 (J) | 0.0849 (J) | | | <0.1015 | <0.1015 | |
| 10/26/2016 | | | | | | | | | 1.24 |
| 12/12/2016 | | | | | | 1.38 | | | 1.24 |
| 12/13/2016 | 0.0285 (J) | 0.0875 (J) | 0.0258 (J) | | 0.0965 (J) | | <0.1015 | <0.1015 | |
| 12/14/2016 | | | | 0.0914 (J) | | | | | |
| 2/6/2017 | | 0.0729 (J) | | | | 1.44 | | <0.1015 | 1.1 |
| 2/7/2017 | 0.03 (J) | | | | | | | | |
| 2/8/2017 | | | 0.0249 (J) | 0.0524 (J) | 0.0896 (J) | | <0.1015 | | |
| 3/27/2017 | | 0.0706 (J) | | | | | | | 1.04 |
| 3/28/2017 | 0.0309 (J) | | | 0.0532 (J) | | 1.44 | | <0.1015 | |
| 3/29/2017 | | | 0.0247 (J) | | | | <0.1015 | | |
| 3/30/2017 | | | | | 0.0871 (J) | | | | |
| 4/24/2017 | | 0.0737 (J) | | | | 1.41 | | <0.1015 | 1 |
| 4/26/2017 | 0.0273 (J) | | 0.0264 (J) | 0.0598 (J) | 0.0818 (J) | | <0.1015 | | |
| 6/5/2017 | | 0.0767 (J) | | | | | | | |
| 6/6/2017 | 0.0212 (J) | | 0.0247 (J) | 0.0576 (J) | 0.0805 (J) | | | | 1.02 |
| 6/7/2017 | | | | | | 1.45 | <0.1015 | <0.1015 | |
| 8/21/2017 | | | | | 0.102 | 1.39 | | <0.1015 | 1.05 |
| 8/22/2017 | 0.0294 (J) | 0.0786 (J) | 0.0246 (J) | 0.0702 (J) | | | <0.1015 | | |
| 8/23/2017 | | | | | | | | | |
| 5/14/2018 | | | | | | | | | 0.99 |
| 5/15/2018 | | 0.0953 (J) | | 0.0567 (J) | | 1.5 | <0.1015 | <0.1015 | |
| 5/16/2018 | 0.0356 (J) | | 0.0247 (J) | | 0.147 | | | | |
| 10/15/2018 | | 0.0842 (J) | | 0.07 (J) | | 1.53 | | | 1.05 |
| 10/16/2018 | 0.0363 (J) | | | | 0.169 | | | <0.1015 | |
| 10/17/2018 | | | 0.0251 (J) | | | | <0.1015 | | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | <0.1015 | <0.1015 | 0.961 |
| 4/17/2019 | 0.0336 (J) | 0.0916 (J) | <0.1015 | 0.0388 (J) | 0.165 | | | | |
| 4/23/2019 | | | | | | 1.5 | | | |
| 9/23/2019 | | 0.116 | | | | | | | 1.08 |
| 9/24/2019 | 0.0375 (J) | | <0.1015 | 0.0607 (J) | | 1.6 | | <0.1015 | |
| 9/25/2019 | | | | | 0.153 | | | | |
| 3/16/2020 | | 0.0894 (J) | | | | | | | |
| 3/17/2020 | | | | | | 1.58 | | | 0.867 |
| 3/18/2020 | | | | 0.0596 (J) | | | | <0.1015 | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | 0.0398 (J) | | <0.1015 | | | | | | |
| 3/25/2020 | | | | | 0.163 | | | | |
| 5/12/2020 | | 0.0862 (J) | | | | | | | |
| 5/13/2020 | | | | | 0.154 | | | | |
| 9/16/2020 | | | | | | 1.54 | | | 0.8 |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 0.102 | | | | | | <0.1015 | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-21 | GS-AP-MW-17V ... | GS-AP-MW-23H | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|------------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|-------------|------------|
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | 0.176 (o) | | | | | | |
| 8/3/2016 | 1.04 | 0.34 | | | | | | | |
| 9/19/2016 | | | | | | | | | |
| 9/20/2016 | 1.01 | 0.299 | | | | | | | |
| 9/21/2016 | | | 0.0723 (J) | | | | | | |
| 10/24/2016 | 1.08 | | | | | | | | |
| 10/25/2016 | | 0.323 | 0.0867 (J) | | | | | | |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | 1.09 | | | | | | | | |
| 12/13/2016 | | 0.294 | | | | | | | |
| 12/14/2016 | | | 0.092 (J) | | | | | | |
| 2/6/2017 | 1.06 | | | | | | | | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | | 0.264 | 0.0803 (J) | | | | | | |
| 3/27/2017 | 1.07 | | | | | | | | |
| 3/28/2017 | | | 0.0804 (J) | | | | | | |
| 3/29/2017 | | 0.246 | | | | | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | 1.08 | | | | | | | | |
| 4/26/2017 | | 0.234 | 0.0801 (J) | | | | | | |
| 6/5/2017 | | | | | | | | | |
| 6/6/2017 | 1.11 | | 0.0795 (J) | | | | | | |
| 6/7/2017 | | 0.194 | | | | | | | |
| 8/21/2017 | 0.906 | | | | | | | | |
| 8/22/2017 | | 0.156 | | | | | | | |
| 8/23/2017 | | | 0.0764 (J) | | | | | | |
| 5/14/2018 | 1.04 | | | | | | | | |
| 5/15/2018 | | 0.0781 (J) | 0.0769 (J) | | | | | | |
| 5/16/2018 | | | | | | | | | |
| 10/15/2018 | 1.06 | | | | | | | | |
| 10/16/2018 | | 0.057 (J) | 0.0764 (J) | | | | | | |
| 10/17/2018 | | | | | | | | | |
| 2/20/2019 | | | | 0.0337 (J) | 0.0498 (J) | | | | |
| 2/21/2019 | | | | | | | | 0.0303 (J) | |
| 4/16/2019 | 1.1 | 0.0385 (J) | | | | | | | |
| 4/17/2019 | | | 0.0675 (J) | | | | | | |
| 4/23/2019 | | | | | | | | | |
| 9/23/2019 | 1.15 | | | | | 0.0641 (J) | | | |
| 9/24/2019 | | | 0.0843 (J) | 0.0532 (J) | | | | | |
| 9/25/2019 | | 0.122 | | | | | | 0.0347 (J) | |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | 1.17 | | | | | 0.0504 (J) | | | |
| 3/18/2020 | | 0.0449 (J) | 0.0824 (J) | | | | 0.0565 (J) | | |
| 3/23/2020 | | | | | | | | 0.0316 (J) | |
| 3/24/2020 | | | | | | 0.0343 (J) | | | |
| 3/25/2020 | | | | 0.0482 (J) | | | | | |
| 5/12/2020 | | | | | | | | | |
| 5/13/2020 | | | | | | | | | |
| 9/16/2020 | | | | | | | | | |
| 9/17/2020 | 1.22 | | | | | 0.0637 (J) | | | |
| 9/21/2020 | | | | | | | 0.0712 (J) | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-21 | GS-AP-MW-17V ... | GS-AP-MW-23H | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|-----------|-------------|-------------|-------------|------------------|--------------|--------------|--------------|-------------|------------|
| 9/22/2020 | | | | | | | | 0.0348 (J) | |
| 9/23/2020 | | 0.0446 (J) | 0.0871 (J) | 0.0478 (J) | | 0.0322 (J) | | | |
| 2/1/2021 | | 0.0672 (J) | | | | <0.1015 | | | |
| 2/2/2021 | | | | 0.0396 (J) | | | | 0.0358 (J) | |
| 2/3/2021 | 1.24 | | | | 0.0425 (J) | | | | |
| 2/8/2021 | | | 0.0991 (J) | | | | | | |
| 2/9/2021 | | | | | | | 0.0722 (J) | | |
| 2/10/2021 | | | | | | | | | |
| 2/17/2021 | | | | | | | | | 0.426 |
| 7/27/2021 | 1.29 | | | | 0.0474 (J) | | | | |
| 8/2/2021 | | | | 0.0368 (J) | | | | | |
| 8/3/2021 | | | | | | | 0.0601 (J) | | 0.386 |
| 8/4/2021 | | | 0.0993 (J) | | | | | | |
| 8/9/2021 | | <0.1015 | | | | <0.1015 | | | |
| 8/10/2021 | | | | | | | | <0.1015 | |
| 2/8/2022 | | | 0.111 | | | | | | |
| 2/14/2022 | 1.29 | | | 0.0386 (J) | 0.035 (J) | | | | |
| 2/15/2022 | | | | | | | | | |
| 2/16/2022 | | | | | | | 0.0594 (J) | | 0.311 |
| 2/21/2022 | | | | | | | | 0.0349 (J) | |
| 2/22/2022 | | | | | | | | | |
| 2/23/2022 | | | | | | <0.1015 | | | |
| 2/28/2022 | | 0.0305 (J) | | | | | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-21 | GS-AP-MW-13 (bg) | GS-AP-MW-8 (bg) |
|------------|-------------|-------------|--------------|-------------|------------|------------|-------------|------------------|-----------------|
| 8/1/2016 | 39.6 | 4.52 | 33 | 10.5 | | | | | |
| 8/2/2016 | | | | | 2.25 | 19.4 | 5.29 | 47.2 | |
| 8/3/2016 | | | | | | | | | 6.85 |
| 9/19/2016 | | 4.3 | 31.7 | | 0.724 | | | | |
| 9/20/2016 | | | | 14.7 | | | | 46.3 | |
| 9/21/2016 | 38.1 | | | | | 15.4 | 4.51 | | 11.7 |
| 10/24/2016 | 34.7 | 4.02 | | | 0.635 | 14.8 | | | |
| 10/25/2016 | | | 32.2 | 14.7 | | | 4.92 | 46.6 | 10.8 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | 15 | | | |
| 12/13/2016 | 44 | 5.5 | 33.1 | | 0.714 | | | 43.1 | 5.86 |
| 12/14/2016 | | | | 11.9 | | | 3.5 | | |
| 2/6/2017 | | 3.79 | | | | 14.9 | | | 9.76 |
| 2/7/2017 | 39 | | | | | | | | |
| 2/8/2017 | | | 32.7 | 14.4 | 0.722 | | 3.75 | 47.5 | |
| 3/27/2017 | | 3.13 | | | | | | | |
| 3/28/2017 | 43.9 | | | 12.9 | | 14.3 | 3.63 | | 5.28 |
| 3/29/2017 | | | 32.7 | | | | | 46.8 | |
| 3/30/2017 | | | | | 0.686 | | | | |
| 4/24/2017 | | 3.41 | | | | 14.5 | | | 6.89 |
| 4/26/2017 | 42.8 | | 33.8 | 10.4 | 0.646 | | 3.3 | 48.1 | |
| 6/5/2017 | | 3.32 | | | | | | | |
| 6/6/2017 | 43.1 | | 32.2 | 9.41 | 0.569 | | 3.24 | | |
| 6/7/2017 | | | | | | 14.1 | | 44.4 | 3.58 |
| 8/21/2017 | | | | | 0.634 | 12.6 | | | 3.38 |
| 8/22/2017 | 40.7 | 3.52 | 30.9 | 6.89 | | | | 42.9 | |
| 8/23/2017 | | | | | | | 6.6 | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 4.53 | | 6.86 | | 12.9 | 7.57 | 44.3 | 4.25 |
| 5/16/2018 | 45.3 | | 33.5 | | 0.588 | | | | |
| 10/15/2018 | | 3.38 | | 6.28 | | 12.5 | | | |
| 10/16/2018 | 40.9 | | | | 0.714 | | 4.4 | | 3.21 |
| 10/17/2018 | | | 32 | | | | | 41.8 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 38.6 | 4.43 |
| 4/17/2019 | 38.4 | 3.86 | 32.3 | 8.53 | 0.511 | | 2.88 | | |
| 4/23/2019 | | | | | | 13.8 | | | |
| 9/23/2019 | | 5.43 | | | | | | | |
| 9/24/2019 | 48.4 | | 34.3 | 3.26 | | 13.4 | 2.47 | | 7.24 |
| 9/25/2019 | | | | | 0.581 | | | | |
| 3/16/2020 | | 3 | | | | | | | |
| 3/17/2020 | | | | | | 13.5 | | | |
| 3/18/2020 | | | | 5.25 | | | 2.35 | | 4.51 |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | 41.7 | | 34.1 | | | | | | |
| 3/25/2020 | | | | | 0.518 | | | | |
| 5/12/2020 | | 2.95 | | | | | | | |
| 5/13/2020 | | | | | 0.493 (J) | | | | |
| 9/16/2020 | | | | | | 12.2 | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 3.73 | | | | | | | 5.19 |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-23H | GS-AP-MW-17V ... | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|------------|------------|-------------|-------------|--------------|------------------|--------------|--------------|-------------|------------|
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/3/2016 | 42.5 | 48.1 | 36.1 | | | | | | |
| 9/19/2016 | | | | | | | | | |
| 9/20/2016 | 51.1 | 51.2 | 27 | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | 49.5 | | | | | | | |
| 10/25/2016 | | | 26.1 | | | | | | |
| 10/26/2016 | 65.6 | | | | | | | | |
| 12/12/2016 | 66.5 | 54.3 | | | | | | | |
| 12/13/2016 | | | 29.4 | | | | | | |
| 12/14/2016 | | | | | | | | | |
| 2/6/2017 | 73.1 | 51.2 | | | | | | | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | | | 31.9 | | | | | | |
| 3/27/2017 | 71.9 | 51.4 | | | | | | | |
| 3/28/2017 | | | | | | | | | |
| 3/29/2017 | | | 31.8 | | | | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | 73.5 | 54.7 | | | | | | | |
| 4/26/2017 | | | 34.6 | | | | | | |
| 6/5/2017 | | | | | | | | | |
| 6/6/2017 | 71.8 | 53.9 | | | | | | | |
| 6/7/2017 | | | 33.4 | | | | | | |
| 8/21/2017 | 63.5 | 47.3 | | | | | | | |
| 8/22/2017 | | | 31.5 | | | | | | |
| 8/23/2017 | | | | | | | | | |
| 5/14/2018 | 67.5 | 54.8 | | | | | | | |
| 5/15/2018 | | | 34.8 | | | | | | |
| 5/16/2018 | | | | | | | | | |
| 10/15/2018 | 68.9 | 53.9 | | | | | | | |
| 10/16/2018 | | | 35.6 | | | | | | |
| 10/17/2018 | | | | | | | | | |
| 2/20/2019 | | | | 64.5 | 30.6 | | | | |
| 2/21/2019 | | | | | | 52.3 | | | |
| 4/16/2019 | 57.1 | 54 | 38.3 | | | | | | |
| 4/17/2019 | | | | | | | | | |
| 4/23/2019 | | | | | | | | | |
| 9/23/2019 | 60 | 56.1 | | 80.6 | | | | | |
| 9/24/2019 | | | | | 29.7 | | | | |
| 9/25/2019 | | | 48.1 | | | 33.4 | | | |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | 59.3 | 57.2 | | 79.8 | | | | | |
| 3/18/2020 | | | 44 | | | | 8.01 | | |
| 3/23/2020 | | | | | | | | 42.9 | |
| 3/24/2020 | | | | | | 48.9 | | | |
| 3/25/2020 | | | | | 31.1 | | | | |
| 5/12/2020 | | | | | | | | | |
| 5/13/2020 | | | | | | | | | |
| 9/16/2020 | 55.9 | | | | | | | | |
| 9/17/2020 | | 61.5 | | 87.2 | | | | | |
| 9/21/2020 | | | | | | | 8.2 | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-23H | GS-AP-MW-17V ... | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|-----------|------------|-------------|-------------|--------------|------------------|--------------|--------------|-------------|------------|
| 9/22/2020 | | | | | | | | 45.3 | |
| 9/23/2020 | | | 45.9 | | 29.3 | 44.8 | | | |
| 2/1/2021 | | | 45.8 | | | 48.9 | | | |
| 2/2/2021 | | | | | 31.8 | | | 44.8 | |
| 2/3/2021 | 50.7 | 56.9 | | 75.6 | | | | | |
| 2/8/2021 | | | | | | | | | |
| 2/9/2021 | | | | | | | 10 | | |
| 2/10/2021 | | | | | | | | | |
| 2/17/2021 | | | | | | | | | 39.3 |
| 7/27/2021 | 52.6 | 55.5 | | 75.5 | | | | | |
| 8/2/2021 | | | | | 33 | | | | |
| 8/3/2021 | | | | | | | 10.6 | | 30.8 |
| 8/4/2021 | | | | | | | | | |
| 8/9/2021 | | | 40.2 | | | 35.7 | | | |
| 8/10/2021 | | | | | | | | 45.1 | |
| 2/8/2022 | | | | | | | | | |
| 2/14/2022 | 60.1 | 55.7 | | 74.4 | 30.1 | | | | |
| 2/15/2022 | | | | | | | | | |
| 2/16/2022 | | | | | | | 14.3 | | 18.6 |
| 2/21/2022 | | | | | | | | 47.7 | |
| 2/22/2022 | | | | | | | | | |
| 2/23/2022 | | | | | | | | | 46.3 |
| 2/28/2022 | | | 37.9 | | | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-21 | GS-AP-MW-13 (bg) | GS-AP-MW-8 (bg) |
|------------|-------------|-------------|--------------|-------------|------------|------------|-------------|------------------|-----------------|
| 8/1/2016 | 6.67 | 6.47 | 2.6 | 15.6 | | | | | |
| 8/2/2016 | | | | | 6.15 | 3.7 | 28.1 | 2.91 | |
| 8/3/2016 | | | | | | | | | 3.21 |
| 9/19/2016 | | 7.78 | 2.51 | | 5.98 | | | | |
| 9/20/2016 | | | | 8.6 | | | | 2.94 | |
| 9/21/2016 | 6.54 | | | | | 3.74 | 26.8 | | 2.95 |
| 10/24/2016 | 8.77 | 7.29 | | | 5.93 | 3.75 | | | |
| 10/25/2016 | | | 2.53 | 7.96 | | | 26 | 2.94 | 3.03 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | 4.06 | | | |
| 12/13/2016 | 6.16 | 12.2 | 2.53 | | 5.7 | | | 2.93 | 3.21 |
| 12/14/2016 | | | | 6.94 | | | 25.3 | | |
| 2/6/2017 | | 7.68 | | | | 3.92 | | | 3 |
| 2/7/2017 | 7.57 | | | | | | | | |
| 2/8/2017 | | | 2.5 | 4.96 | 8.44 | | 23.8 | 2.85 | |
| 3/27/2017 | | 9 | | | | | | | |
| 3/28/2017 | 5.9 | | | 5.2 | | 4.3 | 28 | | 3.3 |
| 3/29/2017 | | | 2.9 | | | | | 3.4 | |
| 3/30/2017 | | | | | 11 | | | | |
| 4/24/2017 | | 10 | | | | 4.6 | | | 3.8 |
| 4/26/2017 | 6.5 | | 3.2 | 6 | 10 | | 27 | 3.7 | |
| 6/5/2017 | | 10 | | | | | | | |
| 6/6/2017 | 5.5 | | 2.6 | 4.9 | 9.6 | | 28 | | |
| 6/7/2017 | | | | | | 4.3 | | 3.3 | 3.5 |
| 8/21/2017 | | | | | 12 | 4.7 | | | 3.6 |
| 8/22/2017 | 6.5 | 12 | 2.9 | 5.3 | | | | 3.4 | |
| 8/23/2017 | | | | | | | 29 | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 13 | | 3.8 | | 4.3 | 27 | 3.2 | 3.3 |
| 5/16/2018 | 6.6 | | 3 | | 12 | | | | |
| 10/15/2018 | | 10 | | 6.6 | | 5.1 | | | |
| 10/16/2018 | 6.2 | | | | 20 | | 31 | | 3.3 |
| 10/17/2018 | | | 2.2 | | | | | 2.3 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 3.23 | 3.69 |
| 4/17/2019 | 7.27 | 12.7 | 2.82 | 5.2 | 9.5 | | 32.3 | | |
| 4/23/2019 | | | | | | 5.16 | | | |
| 9/23/2019 | | 16.2 | | | | | | | |
| 9/24/2019 | 5.83 | | 2.9 | 5.96 | | 5.76 | 36 | | 3.21 |
| 9/25/2019 | | | | | 12 | | | | |
| 3/16/2020 | | 9.95 | | | | | | | |
| 3/17/2020 | | | | | | 6.65 | | | |
| 3/18/2020 | | | | 8 | | | 49.5 | | 4.35 |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | 6.29 | | 2.88 | | | | | | |
| 3/25/2020 | | | | | 9.7 | | | | |
| 5/12/2020 | | 9.16 | | | | | | | |
| 5/13/2020 | | | | | 8.25 | | | | |
| 9/16/2020 | | | | | | 6.17 | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 13.8 | | | | | | | 3.22 |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-23H | GS-AP-MW-17V ... | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|------------|------------|-------------|-------------|--------------|------------------|--------------|--------------|-------------|------------|
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/3/2016 | 21.9 | 5.2 | 14.5 | | | | | | |
| 9/19/2016 | | | | | | | | | |
| 9/20/2016 | 20.9 | 5.31 | 12.9 | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | 5.4 | | | | | | | |
| 10/25/2016 | | | 12.2 | | | | | | |
| 10/26/2016 | 20.7 | | | | | | | | |
| 12/12/2016 | 21.1 | 5.46 | | | | | | | |
| 12/13/2016 | | | 10.4 | | | | | | |
| 12/14/2016 | | | | | | | | | |
| 2/6/2017 | 23.3 | 5.28 | | | | | | | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | | | 8.77 | | | | | | |
| 3/27/2017 | 25 | 6.4 | | | | | | | |
| 3/28/2017 | | | | | | | | | |
| 3/29/2017 | | | 10 | | | | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | 24 | 6.5 | | | | | | | |
| 4/26/2017 | | | 9.8 | | | | | | |
| 6/5/2017 | | | | | | | | | |
| 6/6/2017 | 22 | 4.7 | | | | | | | |
| 6/7/2017 | | | 8 | | | | | | |
| 8/21/2017 | 21 | 6.1 | | | | | | | |
| 8/22/2017 | | | 6.5 | | | | | | |
| 8/23/2017 | | | | | | | | | |
| 5/14/2018 | 20 | 6 | | | | | | | |
| 5/15/2018 | | | 4.4 | | | | | | |
| 5/16/2018 | | | | | | | | | |
| 10/15/2018 | 20 | 7 | | | | | | | |
| 10/16/2018 | | | 3.1 | | | | | | |
| 10/17/2018 | | | | | | | | | |
| 2/20/2019 | | | | 2.58 | 3.56 | | | | |
| 2/21/2019 | | | | | | 3.77 | | | |
| 4/16/2019 | 23.1 | 8.36 | 3.22 | | | | | | |
| 4/17/2019 | | | | | | | | | |
| 4/23/2019 | | | | | | | | | |
| 9/23/2019 | 23.4 | 8.72 | | 2.26 | | | | | |
| 9/24/2019 | | | | | 3.69 | | | | |
| 9/25/2019 | | | 6.68 | | | 3.84 | | | |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | 17.4 | 10.1 | | 2.62 | | | | | |
| 3/18/2020 | | | 4.22 | | | | 108 | | |
| 3/23/2020 | | | | | | | | 5.13 | |
| 3/24/2020 | | | | | | 4.46 | | | |
| 3/25/2020 | | | | | 3.72 | | | | |
| 5/12/2020 | | | | | | | | | |
| 5/13/2020 | | | | | | | | | |
| 9/16/2020 | 14.6 | | | | | | | | |
| 9/17/2020 | | 10.5 | | 1.92 | | | | | |
| 9/21/2020 | | | | | | | 171 | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-23H | GS-AP-MW-17V ... | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|-----------|------------|-------------|-------------|--------------|------------------|--------------|--------------|-------------|------------|
| 9/22/2020 | | | | | | | | 7.57 | |
| 9/23/2020 | | | 3.15 | | 3.74 | 4.63 | | | |
| 2/1/2021 | | | 3.32 | | | 3.86 | | | |
| 2/2/2021 | | | | | 3.49 | | | 10.8 | |
| 2/3/2021 | 14.9 | 12.2 | | 2.07 | | | | | |
| 2/8/2021 | | | | | | | | | |
| 2/9/2021 | | | | | | | 197 | | |
| 2/10/2021 | | | | | | | | | |
| 2/17/2021 | | | | | | | | | 17.4 |
| 7/27/2021 | 17 | 11.1 | | 2.48 | | | | | |
| 8/2/2021 | | | | | 3.12 | | | | |
| 8/3/2021 | | | | | | | 176 | | 13.6 |
| 8/4/2021 | | | | | | | | | |
| 8/9/2021 | | | 2.75 | | | 4.44 | | | |
| 8/10/2021 | | | | | | | | 18.8 | |
| 2/8/2022 | | | | | | | | | |
| 2/14/2022 | 20.6 | 11.7 | | 12.8 | 3.26 | | | | |
| 2/15/2022 | | | | | | | | | |
| 2/16/2022 | | | | | | | 129 | | 14 |
| 2/21/2022 | | | | | | | | 18.4 | |
| 2/22/2022 | | | | | | | | | |
| 2/23/2022 | | | | | | | | | 3.83 |
| 2/28/2022 | | | 3.34 | | | | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-21 | GS-AP-MW-13 (bg) | GS-AP-MW-8 (bg) |
|------------|-------------|-------------|--------------|-------------|------------|------------|-------------|------------------|-----------------|
| 8/1/2016 | 0.385 | 0.214 (J) | 0.117 (J) | 1.16 | | | | | |
| 8/2/2016 | | | | | 1.76 | 0.098 (J) | 0.282 (J) | 0.161 (J) | |
| 8/3/2016 | | | | | | | | | 0.125 (J) |
| 9/19/2016 | | 0.151 (J) | 0.078 (J) | | 1.55 | | | | |
| 9/20/2016 | | | | 0.7 | | | | 0.122 (J) | |
| 9/21/2016 | 0.303 | | | | | 0.061 (J) | 0.231 (J) | | 0.098 (J) |
| 10/24/2016 | 0.24 (J) | 0.086 (J) | | | 1.29 | <0.1 | | | |
| 10/25/2016 | | | 0.018 (J) | 0.544 | | | 0.137 (J) | 0.058 (J) | 0.025 (J) |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | 0.01 (J) | | | |
| 12/13/2016 | 0.188 (J) | 0.14 (J) | 0.035 (J) | | 1.19 | | | 0.072 (J) | 0.045 (J) |
| 12/14/2016 | | | | 0.51 | | | 0.131 (J) | | |
| 2/6/2017 | | 0.2 | | | | 0.07 (J) | | | 0.1 |
| 2/7/2017 | 0.38 | | | | | | | | |
| 2/8/2017 | | | 0.1 | 0.56 | 1.6 | | 0.25 | 0.16 | |
| 3/27/2017 | | 0.21 | | | | | | | |
| 3/28/2017 | 0.32 | | | 0.59 | | 0.07 (J) | 0.27 | | 0.08 (J) |
| 3/29/2017 | | | 0.08 (J) | | | | | 0.14 | |
| 3/30/2017 | | | | | 1.5 | | | | |
| 4/24/2017 | | 0.2 | | | | 0.08 (J) | | | 0.09 (J) |
| 4/26/2017 | 0.31 | | 0.11 | 0.72 | 1.4 | | 0.24 | 0.16 | |
| 6/5/2017 | | 0.2 | | | | | | | |
| 6/6/2017 | 0.31 | | 0.11 | 0.65 | 1.3 | | 0.25 | | |
| 6/7/2017 | | | | | | 0.09 (J) | | 0.15 | 0.08 (J) |
| 8/21/2017 | | | | | 1.4 | 0.09 (J) | | | 0.08 (J) |
| 8/22/2017 | 0.35 | 0.24 | 0.11 | 0.9 | | | | 0.18 | |
| 8/23/2017 | | | | | | | 0.3 | | |
| 2/19/2018 | | 0.34 | | | | 0.09 (J) | | | 0.08 (J) |
| 2/20/2018 | | | | 0.6 | | | 0.23 | 0.17 | |
| 2/21/2018 | 0.39 | | 0.11 | | 1.1 | | | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 0.27 | | 0.57 | | 0.09 (J) | 0.24 | 0.17 | 0.1 |
| 5/16/2018 | 0.36 | | 0.12 | | 1.1 | | | | |
| 10/15/2018 | | 0.23 | | 0.77 | | 0.11 | | | |
| 10/16/2018 | 0.37 | | | | 1 | | 0.25 | | 0.09 (J) |
| 10/17/2018 | | | 0.13 | | | | | 0.19 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 0.197 | 0.143 |
| 4/17/2019 | 0.27 | 0.354 | 0.171 | 0.463 | 0.868 | | 0.272 | | |
| 4/23/2019 | | | | | | 0.111 | | | |
| 9/23/2019 | | 0.351 | | | | | | | |
| 9/24/2019 | 0.307 | | 0.124 | 0.628 | | 0.106 | 0.209 | | 0.128 |
| 9/25/2019 | | | | | 0.86 | | | | |
| 3/16/2020 | | 0.261 | | | | | | | |
| 3/17/2020 | | | | | | 0.107 | | | |
| 3/18/2020 | | | | 0.647 | | | 0.234 | | 0.108 |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | 0.327 | | 0.109 | | | | | | |
| 3/25/2020 | | | | | 0.855 | | | | |
| 5/12/2020 | | 0.263 | | | | | | | |
| 5/13/2020 | | | | | 0.777 | | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-17V ... | GS-AP-MW-23H | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|-----------|------------|-------------|-------------|------------------|--------------|--------------|--------------|-------------|------------|
| 9/16/2020 | 0.308 | | | | | | | | |
| 9/17/2020 | | 0.133 | | | 0.117 | | | | |
| 9/21/2020 | | | | | | | 0.372 | | |
| 9/22/2020 | | | | | | | | 0.174 | |
| 9/23/2020 | | | 0.12 | 0.278 | | 0.176 | | | |
| 2/1/2021 | | | 0.126 | | | 0.169 | | | |
| 2/2/2021 | | | | 0.244 | | | | 0.183 | |
| 2/3/2021 | 0.195 | 0.135 | | | 0.156 | | | | |
| 2/8/2021 | | | | | | | | | |
| 2/9/2021 | | | | | | | 0.329 | | |
| 2/10/2021 | | | | | | | | | |
| 2/17/2021 | | | | | | | | | 0.1 |
| 7/27/2021 | 0.2 | 0.127 | | | 0.13 | | | | |
| 8/2/2021 | | | | 0.276 | | | | | |
| 8/3/2021 | | | | | | | 0.278 | | 0.102 |
| 8/4/2021 | | | | | | | | | |
| 8/9/2021 | | | 0.139 | | | 0.187 | | | |
| 8/10/2021 | | | | | | | | 0.166 | |
| 2/8/2022 | | | | | | | | | |
| 2/14/2022 | 0.164 | 0.108 | | 0.237 | 0.14 | | | | |
| 2/15/2022 | | | | | | | | | |
| 2/16/2022 | | | | | | | 0.208 | | <0.1 |
| 2/21/2022 | | | | | | | | 0.177 | |
| 2/22/2022 | | | | | | | | | |
| 2/23/2022 | | | | | | 0.153 | | | |
| 2/28/2022 | | | 0.12 | | | | | | |

Prediction Limit

Constituent: pH (SU) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-21 | GS-AP-MW-13 (bg) | GS-AP-MW-8 (bg) |
|------------|-------------|-------------|--------------|-------------|------------|------------|-------------|------------------|-----------------|
| 8/1/2016 | 8.05 | 8.39 | 7.53 | 11.74 | | | | | |
| 8/2/2016 | | | | | 9.18 | 7.72 | 10.26 | 6.8 | |
| 8/3/2016 | | | | | | | | | 5.84 |
| 9/19/2016 | | 8.42 | 7.5 | | 9.18 | | | | |
| 9/20/2016 | | | | 10.33 | | | | 6.8 | |
| 9/21/2016 | 8.14 | | | | | 7.6 | 10.45 | | 5.99 |
| 10/24/2016 | 8.55 | 8.42 | | | 9.14 | 7.68 | | | |
| 10/25/2016 | | | 7.44 | 10.24 | | | 10.42 | 6.85 | 5.94 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | 7.72 | | | |
| 12/13/2016 | 8.08 | 8.43 | 7.45 | | 9.2 | | | 6.8 | 5.84 |
| 12/14/2016 | | | | 10.09 | | | 10.12 | | |
| 2/6/2017 | | 8.38 | | | | 7.64 | | | 5.9 |
| 2/7/2017 | 8.61 | | | | | | | | |
| 2/8/2017 | | | 7.41 | 9.75 | 9.17 | | 10.28 | 6.76 | |
| 3/27/2017 | | 8.43 | | | | | | | |
| 3/28/2017 | 7.94 | | | 9.9 | | 7.58 | 10.67 | | 5.67 |
| 3/29/2017 | | | 7.44 | | | | | 6.76 | |
| 3/30/2017 | | | | | 9.08 | | | | |
| 4/24/2017 | | 8.39 | | | | 7.68 | | | 5.79 |
| 4/26/2017 | 8.26 | | 7.47 | 10.08 | 9.22 | | 10.42 | 6.71 | |
| 6/5/2017 | | 8.42 | | | | | | | |
| 6/6/2017 | 8.23 | | 7.37 | 10.2 | 9.22 | | 10.51 | | |
| 6/7/2017 | | | | | | 7.56 | | 6.71 | 5.71 |
| 8/21/2017 | | | | | 9.12 | 7.61 | | | 5.7 |
| 8/22/2017 | 8.1 | 8.4 | 7.48 | 10.57 | | | | 6.84 | |
| 8/23/2017 | | | | | | | 11.91 | | |
| 2/19/2018 | | 8.33 | | | | 7.65 | | | 5.78 |
| 2/20/2018 | | | | 10.63 | | | 11.57 | 6.77 | |
| 2/21/2018 | 8.48 | | 7.44 | | 9.17 | | | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 8.3 | | 10.71 | | 7.69 | 11.26 | 6.8 | 5.84 |
| 5/16/2018 | 8.12 | | 7.45 | | 9.28 | | | | |
| 10/15/2018 | | 8.37 | | 11.51 | | 7.62 | | | |
| 10/16/2018 | 8.22 | | | | 9.35 | | 11.34 | | 5.75 |
| 10/17/2018 | | | 7.41 | | | | | 6.67 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 6.64 | 5.76 |
| 4/17/2019 | 8.06 | 8.36 | 7.33 | 10.76 | 9.26 | | 11.71 | | |
| 4/23/2019 | | | | | | 7.83 | | | |
| 9/23/2019 | | 8.37 | | | | | | | |
| 9/24/2019 | 7.8 | | 7.43 | 11.7 | | 7.38 | 11.24 | | 5.27 |
| 9/25/2019 | | | | | 9.31 | | | | |
| 3/16/2020 | | 8.45 | | | | | | | |
| 3/17/2020 | | | | | | 7.72 | | | |
| 3/18/2020 | | | | 11.47 | | | 11.37 | | 5.81 |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | 7.93 | | 7.46 | | | | | | |
| 3/25/2020 | | | | | 9.29 | | | | |
| 5/12/2020 | | 8.42 | | | | | | | |
| 5/13/2020 | | | | | 9.43 | | | | |

Prediction Limit

Constituent: pH (SU) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-17V ... | GS-AP-MW-23H | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|-----------|------------|-------------|-------------|------------------|--------------|--------------|--------------|-------------|------------|
| 9/16/2020 | 6.93 | | | | | | | | |
| 9/17/2020 | | 7.41 | | | 5.74 | | | | |
| 9/21/2020 | | | | | | | 10.07 | | |
| 9/22/2020 | | | | | | | | 7.08 | |
| 9/23/2020 | | | 8.3 | 7.53 | | 8.84 | | | |
| 2/1/2021 | | | 7.55 | | | 7.3 | | | |
| 2/2/2021 | | | | 7.58 | | | | 6.94 | |
| 2/3/2021 | 7.05 | 7.55 | | | 6.22 | | | | |
| 2/8/2021 | | | | | | | | | |
| 2/9/2021 | | | | | | | 9.55 | | |
| 2/10/2021 | | | | | | | | | |
| 2/17/2021 | | | | | | | | | 7.71 |
| 7/27/2021 | 6.67 | 6.79 | | | 5.65 | | | | |
| 8/2/2021 | | | | 7.65 | | | | | |
| 8/3/2021 | | | | | | | 8.97 | | 7.82 |
| 8/4/2021 | | | | | | | | | |
| 8/9/2021 | | | 7.98 | | | 8.77 | | | |
| 8/10/2021 | | | | | | | | 7.12 | |
| 2/8/2022 | | | | | | | | | |
| 2/14/2022 | 6.99 | 7.43 | | 7.43 | 5.8 | | | | |
| 2/15/2022 | | | | | | | | | |
| 2/16/2022 | | | | | | | 8.65 | | 7.78 |
| 2/21/2022 | | | | | | | | 7 | |
| 2/22/2022 | | | | | | | | | |
| 2/23/2022 | | | | | | 7.73 | | | |
| 2/28/2022 | | | 8.12 | | | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-21 | GS-AP-MW-13 (bg) | GS-AP-MW-8 (bg) |
|------------|-------------|-------------|--------------|-------------|------------|------------|-------------|------------------|-----------------|
| 8/1/2016 | 9.02 | 9.56 | 13.4 | 102 | | | | | |
| 8/2/2016 | | | | | 2.87 | 154 | 9.14 | 12 | |
| 8/3/2016 | | | | | | | | | 4.2 |
| 9/19/2016 | | 12.7 | 12.9 | | 1.22 | | | | |
| 9/20/2016 | | | | 53.3 | | | | 11.2 | |
| 9/21/2016 | 8.38 | | | | | 146 | 8.71 | | 4.27 |
| 10/24/2016 | 18.5 | 8.58 | | | <1 | 131 | | | |
| 10/25/2016 | | | 11.6 | 49.8 | | | 8.54 | 10.1 | 2.78 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | 141 | | | |
| 12/13/2016 | 7.4 | 31 | 12.7 | | <1 | | | 11.4 | 3.18 |
| 12/14/2016 | | | | 40.9 | | | 11.5 | | |
| 2/6/2017 | | 14.7 | | | | 135 | | | 3.74 |
| 2/7/2017 | 8.16 | | | | | | | | |
| 2/8/2017 | | | 12.2 | 25 | 19.4 | | 17 | 10.9 | |
| 3/27/2017 | | 14 | | | | | | | |
| 3/28/2017 | 6.4 | | | 27 | | 140 | 25 | | 3.4 (J) |
| 3/29/2017 | | | 12 | | | | | 11 | |
| 3/30/2017 | | | | | 31 | | | | |
| 4/24/2017 | | 22 | | | | 140 | | | 2.7 (J) |
| 4/26/2017 | 4.6 (J) | | 13 | 29 | 29 | | 28 | 11 | |
| 6/5/2017 | | 30 | | | | | | | |
| 6/6/2017 | 5.2 | | 12 | 23 | 37 | | 33 | | |
| 6/7/2017 | | | | | | 150 | | 11 | 2.7 (J) |
| 8/21/2017 | | | | | 55 | 140 | | | 3.9 (J) |
| 8/22/2017 | 5.3 | 42 | 12 | 22 | | | | 11 | |
| 8/23/2017 | | | | | | | 43 | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 54 | | 13 | | 120 | 110 | 11 | 2.5 (J) |
| 5/16/2018 | 6 | | 13 | | 34 | | | | |
| 10/15/2018 | | 34 | | 14 | | 130 | | | |
| 10/16/2018 | 5.6 | | | | 90 | | 160 | | 2.4 (J) |
| 10/17/2018 | | | 13 | | | | | 12 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 12.1 | 4.53 |
| 4/17/2019 | 14.3 | 76.6 | 14.1 | 9.02 | 48.6 | | 215 | | |
| 4/23/2019 | | | | | | 156 | | | |
| 9/23/2019 | | 124 | | | | | | | |
| 9/24/2019 | 13.8 | | 14.1 | 12.4 | | 145 | 224 | | 6.61 |
| 9/25/2019 | | | | | 47.7 | | | | |
| 3/16/2020 | | 48.6 | | | | | | | |
| 3/17/2020 | | | | | | 149 | | | |
| 3/18/2020 | | | | 15.9 | | | 228 | | 4.86 |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | 15.2 | | 14.1 | | | | | | |
| 3/25/2020 | | | | | 38.5 | | | | |
| 5/12/2020 | | 44.4 | | | | | | | |
| 5/13/2020 | | | | | 33.6 | | | | |
| 9/16/2020 | | | | | | 131 | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 104 | | | | | | | 4.69 |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-23H | GS-AP-MW-17V ... | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|------------|------------|-------------|-------------|--------------|------------------|--------------|--------------|-------------|------------|
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/3/2016 | 203 | 52 | 19.2 | | | | | | |
| 9/19/2016 | | | | | | | | | |
| 9/20/2016 | 209 | 56 | 1.42 | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | 57.5 | | | | | | | |
| 10/25/2016 | | | <1 | | | | | | |
| 10/26/2016 | 224 | | | | | | | | |
| 12/12/2016 | 249 | 50 | | | | | | | |
| 12/13/2016 | | | 3.21 | | | | | | |
| 12/14/2016 | | | | | | | | | |
| 2/6/2017 | 309 | 54.9 | | | | | | | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | | | 3.3 | | | | | | |
| 3/27/2017 | 290 | 50 | | | | | | | |
| 3/28/2017 | | | | | | | | | |
| 3/29/2017 | | | 3.8 (J) | | | | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | 300 | 56 | | | | | | | |
| 4/26/2017 | | | 1.4 (J) | | | | | | |
| 6/5/2017 | | | | | | | | | |
| 6/6/2017 | 310 | 63 | | | | | | | |
| 6/7/2017 | | | 1.7 (J) | | | | | | |
| 8/21/2017 | 260 | 35 | | | | | | | |
| 8/22/2017 | | | 4.2 (J) | | | | | | |
| 8/23/2017 | | | | | | | | | |
| 5/14/2018 | 210 | 46 | | | | | | | |
| 5/15/2018 | | | 14 | | | | | | |
| 5/16/2018 | | | | | | | | | |
| 10/15/2018 | 170 | 37 | | | | | | | |
| 10/16/2018 | | | 13 | | | | | | |
| 10/17/2018 | | | | | | | | | |
| 2/20/2019 | | | | 352 | 15.2 | | | | |
| 2/21/2019 | | | | | | <1 | | | |
| 4/16/2019 | 195 | 46.8 | 13.3 | | | | | | |
| 4/17/2019 | | | | | | | | | |
| 4/23/2019 | | | | | | | | | |
| 9/23/2019 | 176 | 47.9 | | 394 | | | | | |
| 9/24/2019 | | | | | 11.8 | | | | |
| 9/25/2019 | | | 25.5 | | | 1.61 | | | |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | 148 | 59.5 | | 356 | | | | | |
| 3/18/2020 | | | 20.8 | | | | 261 | | |
| 3/23/2020 | | | | | | | | 18.7 | |
| 3/24/2020 | | | | | | <1 | | | |
| 3/25/2020 | | | | | 9.69 | | | | |
| 5/12/2020 | | | | | | | | | |
| 5/13/2020 | | | | | | | | | |
| 9/16/2020 | 115 | | | | | | | | |
| 9/17/2020 | | 65.1 | | 361 | | | | | |
| 9/21/2020 | | | | | | | 348 | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-23H | GS-AP-MW-17V ... | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|-----------|------------|-------------|-------------|--------------|------------------|--------------|--------------|-------------|------------|
| 9/22/2020 | | | | | | | | 21.2 | |
| 9/23/2020 | | | 19.1 | | 11.1 | 6.56 | | | |
| 2/1/2021 | | | 18.7 | | | <1 | | | |
| 2/2/2021 | | | | | 8.81 | | | 31.2 | |
| 2/3/2021 | 116 | 58.9 | | 339 | | | | | |
| 2/8/2021 | | | | | | | | | |
| 2/9/2021 | | | | | | | 350 | | |
| 2/10/2021 | | | | | | | | | |
| 2/17/2021 | | | | | | | | | 158 |
| 7/27/2021 | 114 | 64.4 | | 339 | | | | | |
| 8/2/2021 | | | | | 10.2 | | | | |
| 8/3/2021 | | | | | | | 241 | | 99.4 |
| 8/4/2021 | | | | | | | | | |
| 8/9/2021 | | | 17.3 | | | 1.85 | | | |
| 8/10/2021 | | | | | | | | 32.7 | |
| 2/8/2022 | | | | | | | | | |
| 2/14/2022 | 115 | 58.3 | | 356 | 9.09 | | | | |
| 2/15/2022 | | | | | | | | | |
| 2/16/2022 | | | | | | | 224 | | 91.2 |
| 2/21/2022 | | | | | | | | 32.4 | |
| 2/22/2022 | | | | | | | | | |
| 2/23/2022 | | | | | | | | | 0.741 (J) |
| 2/28/2022 | | | 17.9 | | | | | | |

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-21 | GS-AP-MW-13 (bg) | GS-AP-MW-8 (bg) |
|------------|-------------|-------------|--------------|-------------|------------|------------|-------------|------------------|-----------------|
| 8/1/2016 | 245 | 408 | 222 | 640 | | | | | |
| 8/2/2016 | | | | | 390 | 358 | 348 | 221 | |
| 8/3/2016 | | | | | | | | | 113 |
| 9/19/2016 | | 441 | 220 | | 398 | | | | |
| 9/20/2016 | | | | 434 | | | | 221 | |
| 9/21/2016 | 267 | | | | | 370 | 368 | | 128 |
| 10/24/2016 | 275 | 424 | | | 395 | 370 | | | |
| 10/25/2016 | | | 223 | 394 | | | 348 | 226 | 121 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | 353 | | | |
| 12/13/2016 | 255 | 466 | 211 | | 381 | | | 211 | 101 |
| 12/14/2016 | | | | 387 | | | 352 | | |
| 2/6/2017 | | 414 | | | | 338 | | | 108 |
| 2/7/2017 | 272 | | | | | | | | |
| 2/8/2017 | | | 206 | 303 | 376 | | 352 | 212 | |
| 3/27/2017 | | 444 | | | | | | | |
| 3/28/2017 | 271 | | | 305 | | 352 | 370 | | 91 |
| 3/29/2017 | | | 215 | | | | | 217 | |
| 3/30/2017 | | | | | 391 | | | | |
| 4/24/2017 | | 446 | | | | 362 | | | 89.3 |
| 4/26/2017 | 265 | | 212 | 329 | 384 | | 342 | 202 | |
| 6/5/2017 | | 493 | | | | | | | |
| 6/6/2017 | 287 | | 227 | 331 | 404 | | 367 | | |
| 6/7/2017 | | | | | | 348 | | 218 | 84 |
| 8/21/2017 | | | | | 416 | 362 | | | 91.3 |
| 8/22/2017 | 293 | 500 | 230 | 364 | | | | 224 | |
| 8/23/2017 | | | | | | | 508 | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 528 | | 340 | | 338 | 438 | 209 | 94.7 |
| 5/16/2018 | 301 | | 216 | | 365 | | | | |
| 10/15/2018 | | 462 | | 448 | | 333 | | | |
| 10/16/2018 | 303 | | | | 430 | | 520 | | 76.7 |
| 10/17/2018 | | | 191 | | | | | 208 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 185 | 92 |
| 4/17/2019 | 296 | 540 | 207 | 354 | 341 | | 582 | | |
| 4/23/2019 | | | | | | 354 | | | |
| 9/23/2019 | | 684 | | | | | | | |
| 9/24/2019 | 302 | | 208 | 536 | | 344 | 630 | | 109 |
| 9/25/2019 | | | | | 358 | | | | |
| 3/16/2020 | | 516 | | | | | | | |
| 3/17/2020 | | | | | | 334 | | | |
| 3/18/2020 | | | | 515 | | | 661 | | 90.7 |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | 302 | | 205 | | | | | | |
| 3/25/2020 | | | | | 337 | | | | |
| 5/12/2020 | | 493 | | | | | | | |
| 5/13/2020 | | | | | 328 | | | | |
| 9/16/2020 | | | | | | 351 | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 658 | | | | | | | 94 |

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-23H | GS-AP-MW-17V ... | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|------------|------------|-------------|-------------|--------------|------------------|--------------|--------------|-------------|------------|
| 8/1/2016 | | | | | | | | | |
| 8/2/2016 | | | | | | | | | |
| 8/3/2016 | 394 | 302 | 546 | | | | | | |
| 9/19/2016 | | | | | | | | | |
| 9/20/2016 | 444 | 298 | 542 | | | | | | |
| 9/21/2016 | | | | | | | | | |
| 10/24/2016 | | 306 | | | | | | | |
| 10/25/2016 | | | 518 | | | | | | |
| 10/26/2016 | 456 | | | | | | | | |
| 12/12/2016 | 491 | 291 | | | | | | | |
| 12/13/2016 | | | 424 | | | | | | |
| 12/14/2016 | | | | | | | | | |
| 2/6/2017 | 580 | 285 | | | | | | | |
| 2/7/2017 | | | | | | | | | |
| 2/8/2017 | | | 379 | | | | | | |
| 3/27/2017 | 554 | 305 | | | | | | | |
| 3/28/2017 | | | | | | | | | |
| 3/29/2017 | | | 334 | | | | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | 566 | 301 | | | | | | | |
| 4/26/2017 | | | 332 | | | | | | |
| 6/5/2017 | | | | | | | | | |
| 6/6/2017 | 580 | 311 | | | | | | | |
| 6/7/2017 | | | 308 | | | | | | |
| 8/21/2017 | 524 | 289 | | | | | | | |
| 8/22/2017 | | | 286 | | | | | | |
| 8/23/2017 | | | | | | | | | |
| 5/14/2018 | 458 | 303 | | | | | | | |
| 5/15/2018 | | | 235 | | | | | | |
| 5/16/2018 | | | | | | | | | |
| 10/15/2018 | 404 | 309 | | | | | | | |
| 10/16/2018 | | | 211 | | | | | | |
| 10/17/2018 | | | | | | | | | |
| 2/20/2019 | | | | 560 | 346 | | | | |
| 2/21/2019 | | | | | | 237 | | | |
| 4/16/2019 | 382 | 285 | 193 | | | | | | |
| 4/17/2019 | | | | | | | | | |
| 4/23/2019 | | | | | | | | | |
| 9/23/2019 | 381 | 296 | | 598 | | | | | |
| 9/24/2019 | | | | | 365 | | | | |
| 9/25/2019 | | | 253 | | | 183 | | | |
| 3/16/2020 | | | | | | | | | |
| 3/17/2020 | 328 | 303 | | 626 | | | | | |
| 3/18/2020 | | | 236 | | | | 873 | | |
| 3/23/2020 | | | | | | | | 268 | |
| 3/24/2020 | | | | | | 206 | | | |
| 3/25/2020 | | | | | 364 | | | | |
| 5/12/2020 | | | | | | | | | |
| 5/13/2020 | | | | | | | | | |
| 9/16/2020 | 269 | | | | | | | | |
| 9/17/2020 | | 314 | | 648 | | | | | |
| 9/21/2020 | | | | | | | 1090 | | |

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/16/2022 4:02 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 | GS-AP-MW-6D | GS-AP-MW-12 | GS-AP-MW-23H | GS-AP-MW-17V ... | GS-AP-MW-12V | GS-AP-MW-15V | GS-AP-MW-9V | GS-AP-MW-3 |
|-----------|------------|-------------|-------------|--------------|------------------|--------------|--------------|-------------|------------|
| 9/22/2020 | | | | | | | | 285 | |
| 9/23/2020 | | | 216 | | 368 | 195 | | | |
| 2/1/2021 | | | 224 | | | 240 | | | |
| 2/2/2021 | | | | | 356 | | | 314 | |
| 2/3/2021 | 274 | 301 | | 612 | | | | | |
| 2/8/2021 | | | | | | | | | |
| 2/9/2021 | | | | | | | 1040 | | |
| 2/10/2021 | | | | | | | | | |
| 2/17/2021 | | | | | | | | | 387 |
| 7/27/2021 | 273 | 262 | | 580 | | | | | |
| 8/2/2021 | | | | | 333 | | | | |
| 8/3/2021 | | | | | | | 782 | | 333 |
| 8/4/2021 | | | | | | | | | |
| 8/9/2021 | | | 219 | | | 145 | | | |
| 8/10/2021 | | | | | | | | 309 | |
| 2/8/2022 | | | | | | | | | |
| 2/14/2022 | 299 | 297 | | 592 | 365 | | | | |
| 2/15/2022 | | | | | | | | | |
| 2/16/2022 | | | | | | | 782 | | 307 |
| 2/21/2022 | | | | | | | | 299 | |
| 2/22/2022 | | | | | | | | | |
| 2/23/2022 | | | | | | 209 | | | |
| 2/28/2022 | | | 195 | | | | | | |

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:08 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------|------------------|---------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Boron (mg/L) | GS-AP-MW-6D | 0.04438 | 97 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-6 | -0.0634 | -94 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-7 | 0.04679 | 96 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-19 | 2.493 | 77 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6D | 1.303 | 93 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-21 | 3.259 | 103 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-6D | 1.242 | 119 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-7 | 0.6767 | 140 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-8 (bg) | 0.1896 | 85 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-13 (bg) | 0.02914 | 48 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-2 | -0.1524 | -136 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-12 | 0.1096 | 92 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-15 | 0.3442 | 91 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-2 | 0.04403 | 87 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-12 | 3.424 | 75 | 68 | Yes | 18 | 5.556 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-21 | 47.59 | 139 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-6 | -27.41 | -80 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-17 | 24.46 | 78 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-21 | 63.17 | 105 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Tests - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:08 PM

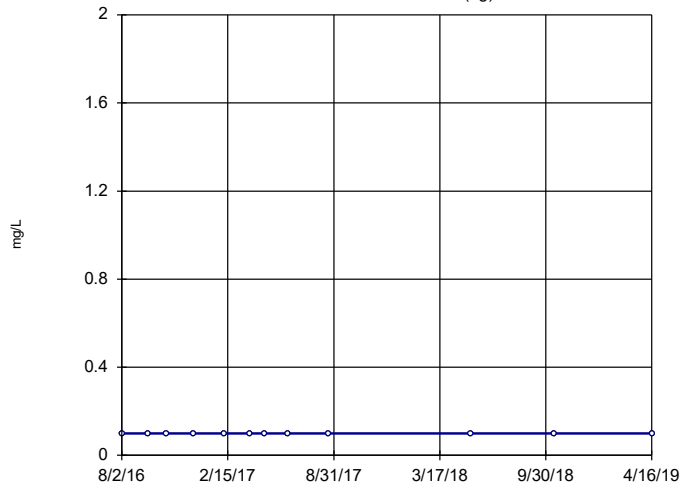
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|------------------------|-------------------------|----------------|-------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Boron (mg/L) | GS-AP-MW-13 (bg) | 0 | 0 | 38 | No | 12 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-17V (bg) | -0.0054 | -7 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-2 | 0.004414 | 21 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-21 | 0.002318 | 39 | 63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-3 | -0.1153 | NaN | NaN | No | 3 | 0 | n/a | n/a | NaN | NP |
| Boron (mg/L) | GS-AP-MW-6D | 0.04438 | 97 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-6 | -0.0634 | -94 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-7 | 0.04679 | 96 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-8 (bg) | 0 | 17 | 68 | No | 18 | 94.44 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-13 (bg) | -2.607 | -32 | -38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-17V (bg) | 0.5737 | 5 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-19 | 2.493 | 77 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-23H | -1.659 | -5 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6D | 1.303 | 93 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6 | -2.413 | -35 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-8 (bg) | -0.6456 | -57 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-13 (bg) | 0.1178 | 10 | 38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-15 | -0.1972 | -23 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-15V | 8.363 | 2 | 12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-17 | 0.5267 | 32 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-17V (bg) | -0.1796 | -7 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-19 | -0.2607 | -59 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-2 | 0.03568 | 8 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-21 | 3.259 | 103 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-23H | 0.1193 | 3 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-3 | -3.409 | NaN | NaN | No | 3 | 0 | n/a | n/a | NaN | NP |
| Chloride (mg/L) | GS-AP-MW-6D | 1.242 | 119 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-6 | -0.8866 | -54 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-7 | 0.6767 | 140 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-8 (bg) | 0.1896 | 85 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-9V | 7.435 | 8 | 12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-13 (bg) | 0.02914 | 48 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-15 | -0.02521 | -35 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-17V (bg) | 0.001162 | 1 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-2 | -0.1524 | -136 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-8 (bg) | 0.003661 | 34 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-12 | 0.1096 | 92 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-13 (bg) | -0.05825 | -34 | -43 | No | 13 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-15 | 0.3442 | 91 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-15V | -1.24 | -10 | -12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-17 | -0.004866 | -19 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-17V (bg) | -0.09188 | -12 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-2 | 0.04403 | 87 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-21 | 0.1186 | 47 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-3 | 0.07019 | NaN | NaN | No | 3 | 0 | n/a | n/a | NaN | NP |
| pH (SU) | GS-AP-MW-8 (bg) | -0.04138 | -73 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-12 | 3.424 | 75 | 68 | Yes | 18 | 5.556 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-13 (bg) | 0.01849 | 11 | 38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-15V | -25.4 | -4 | -12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-17V (bg) | -1.441 | -13 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-2 | 3.194 | 28 | 74 | No | 19 | 10.53 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-21 | 47.59 | 139 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-23H | -5.343 | -5 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-3 | -66.98 | NaN | NaN | No | 3 | 0 | n/a | n/a | NaN | NP |
| Sulfate (mg/L) | GS-AP-MW-6D | 1.138 | 29 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Tests - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:08 PM

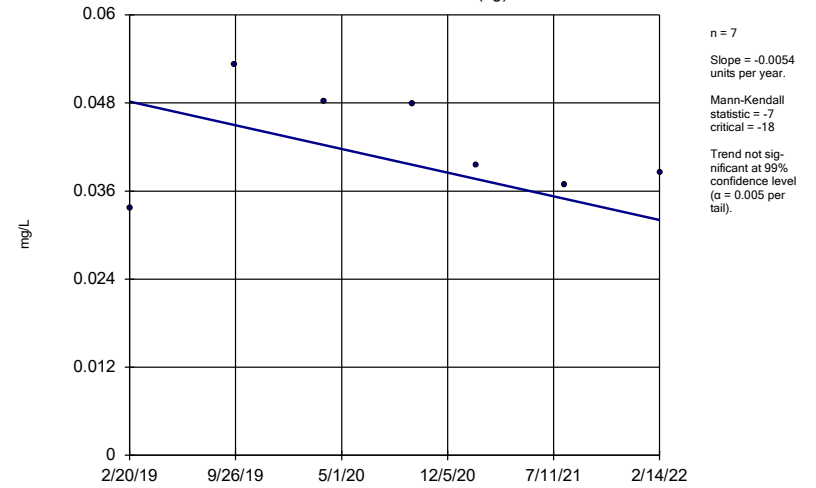
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------------|--------------------|---------------|------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Sulfate (mg/L) | GS-AP-MW-6 | -27.41 | -80 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-7 | -1.448 | -30 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-8 (bg) | 0.1821 | 34 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-9V | 7.525 | 8 | 12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-13 (bg) | -7.182 | -29 | -38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-15 | 33.37 | 49 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-15V | -97.73 | -5 | -12 | No | 5 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-17 | 24.46 | 78 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-17V (bg) | 0 | 0 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-21 | 63.17 | 105 | 68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-23H | 8.221 | 1 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-8 (bg) | -3.157 | -39 | -68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator GS-AP-MW-13 (bg)



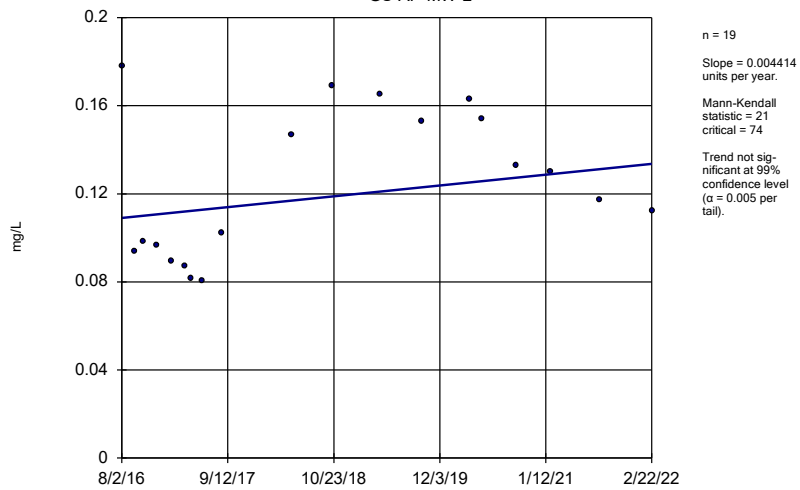
Constituent: Boron Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-17V (bg)



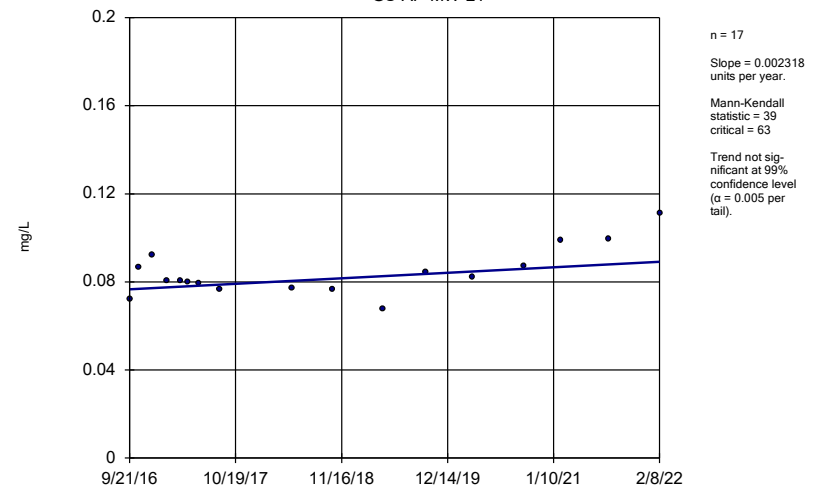
Constituent: Boron Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-2



Constituent: Boron Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

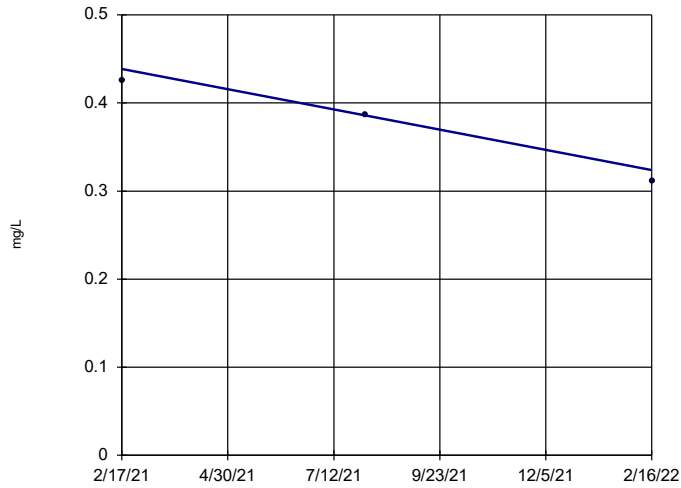
Sen's Slope Estimator GS-AP-MW-21



Constituent: Boron Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-3

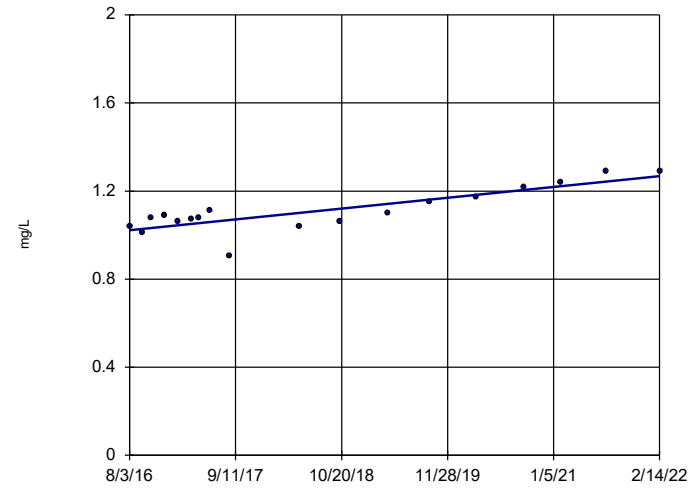


n = 3
 Slope = -0.1153
 units per year.
 Minimum n for
 Mann-Kendall
 is 4.

Constituent: Boron Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-6D

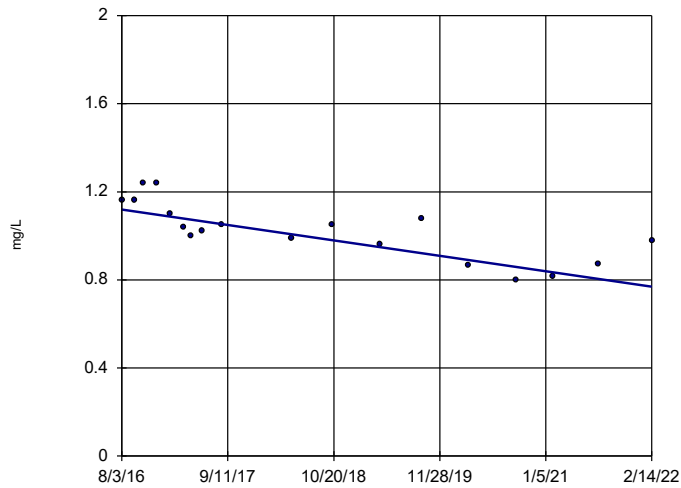


n = 18
 Slope = 0.04438
 units per year.
 Mann-Kendall
 statistic = 97
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-6

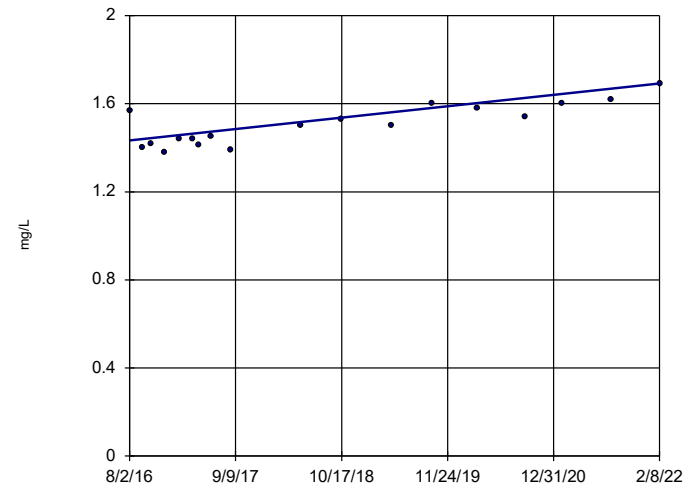


n = 18
 Slope = -0.0634
 units per year.
 Mann-Kendall
 statistic = -94
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-7

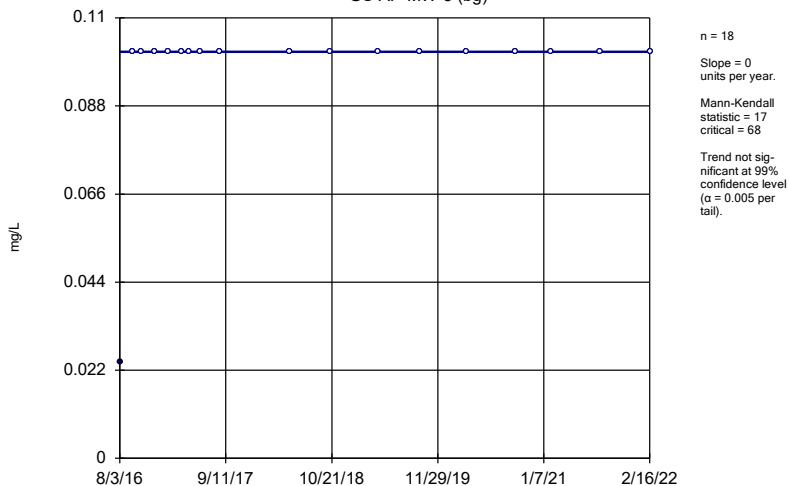


n = 18
 Slope = 0.04679
 units per year.
 Mann-Kendall
 statistic = 96
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

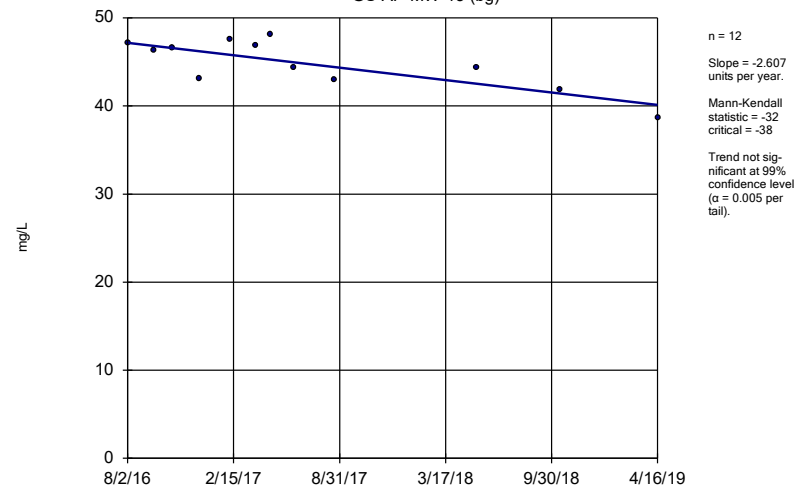
GS-AP-MW-8 (bg)



Constituent: Boron Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

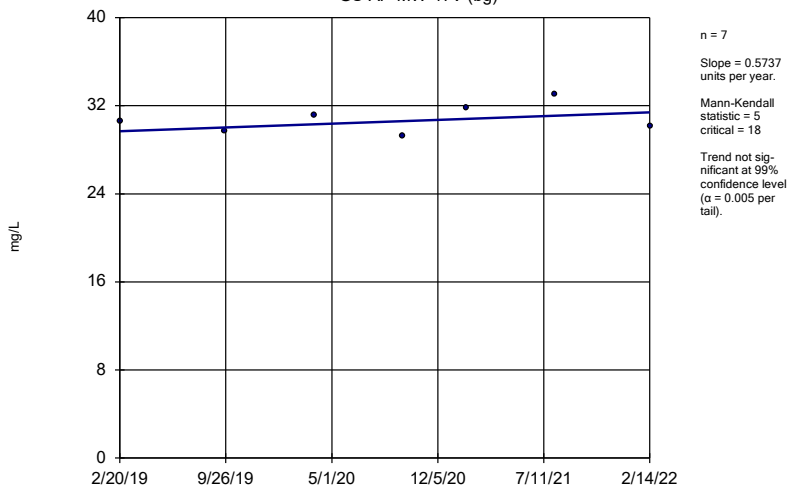
GS-AP-MW-13 (bg)



Constituent: Calcium Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

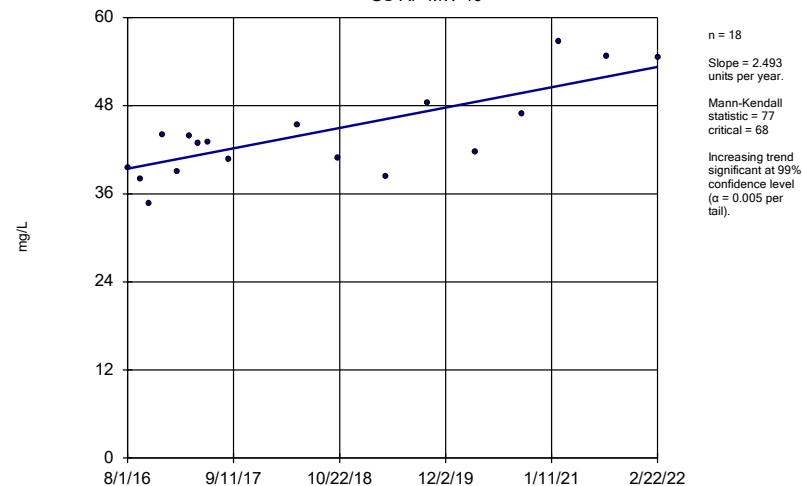
GS-AP-MW-17V (bg)



Constituent: Calcium Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

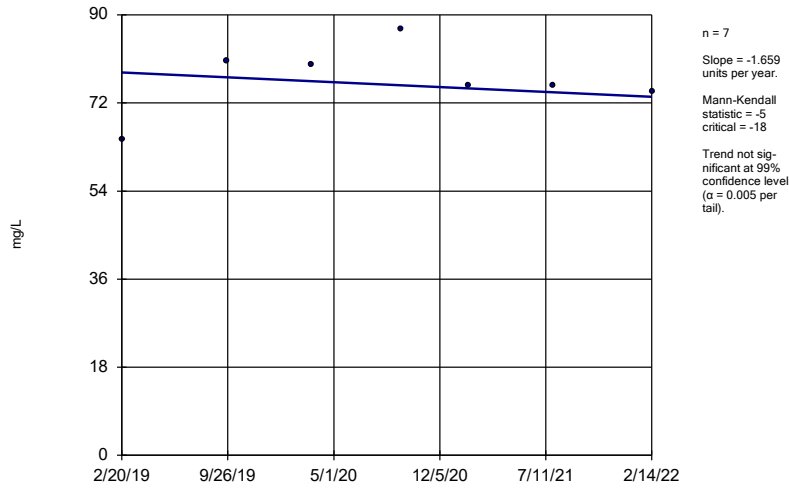
GS-AP-MW-19



Constituent: Calcium Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

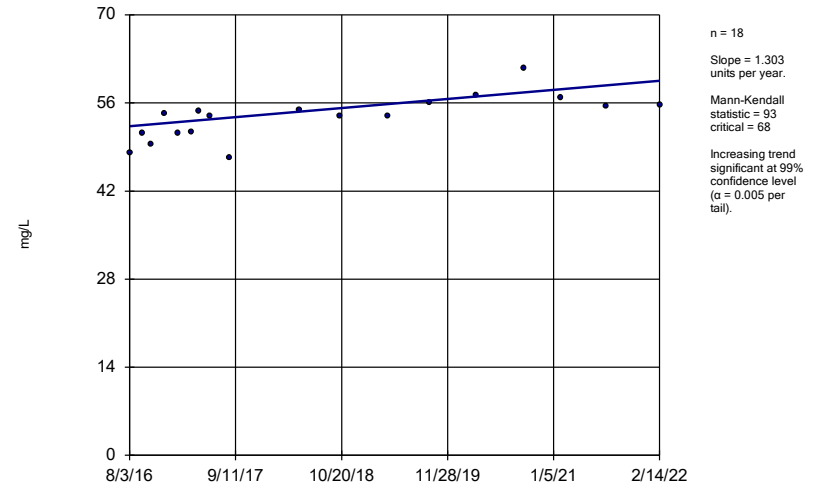
GS-AP-MW-23H



Constituent: Calcium Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

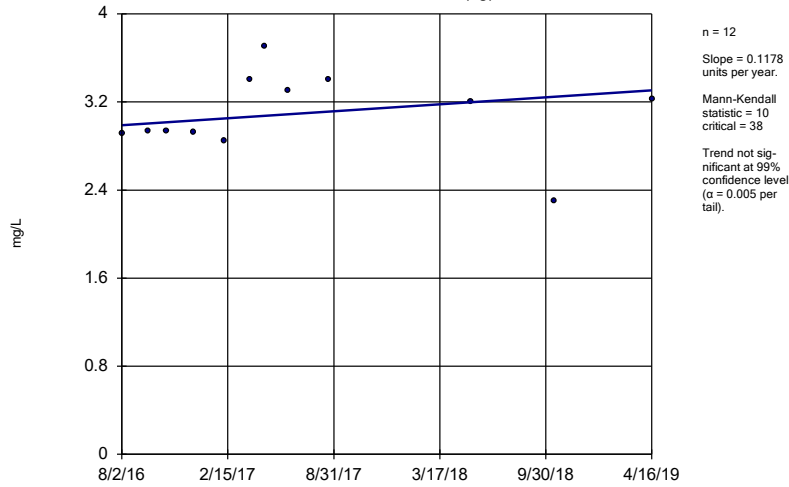
Sen's Slope Estimator

GS-AP-MW-6D



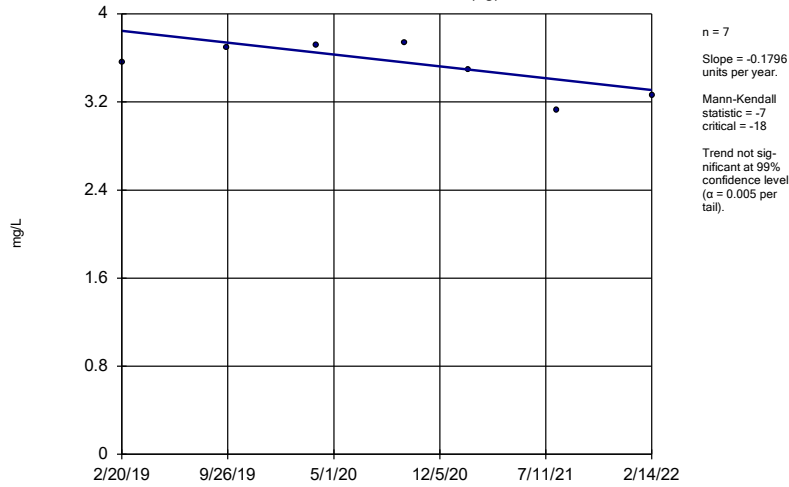
Sen's Slope Estimator

GS-AP-MW-13 (bg)



Sen's Slope Estimator

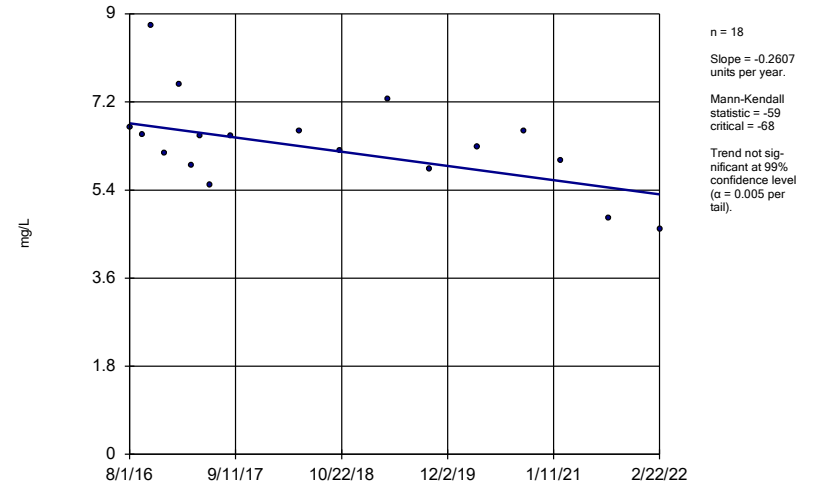
GS-AP-MW-17V (bg)



Constituent: Chloride Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

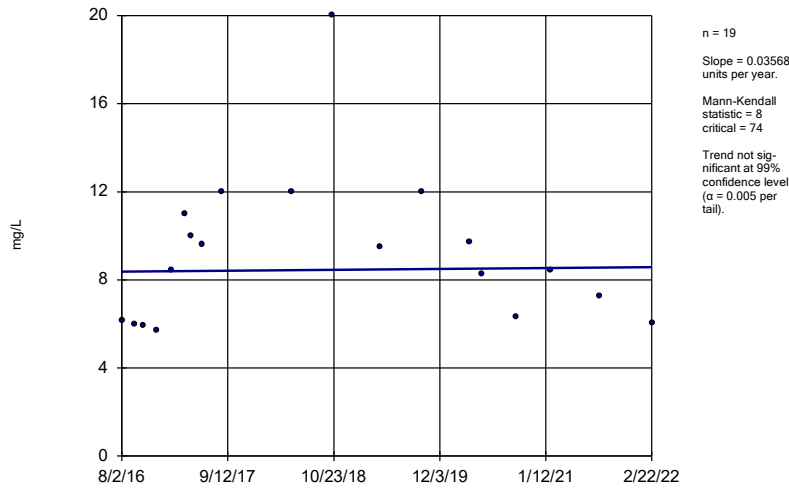
GS-AP-MW-19



Constituent: Chloride Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

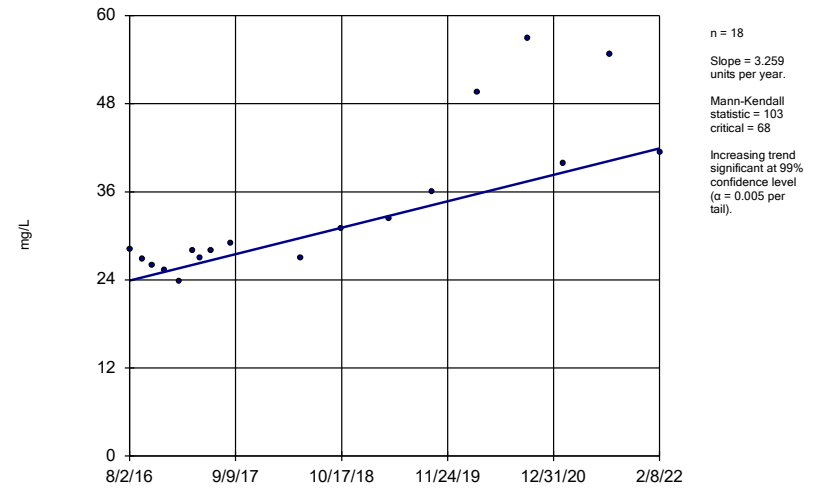
GS-AP-MW-2



Constituent: Chloride Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

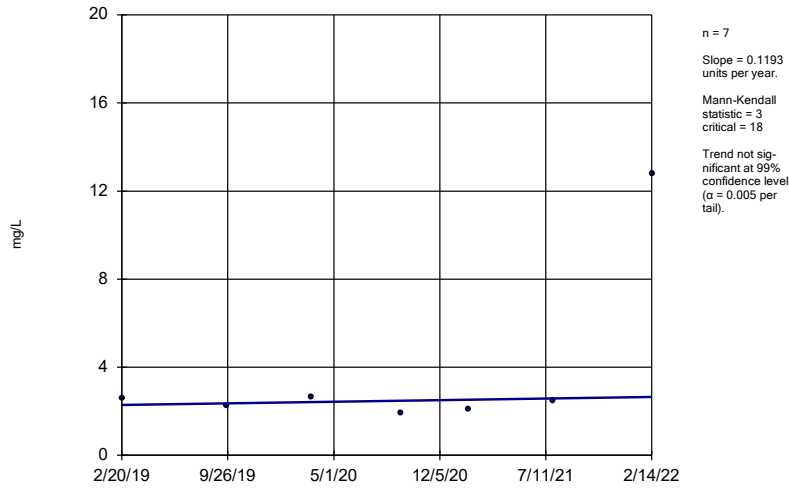
Sen's Slope Estimator

GS-AP-MW-21



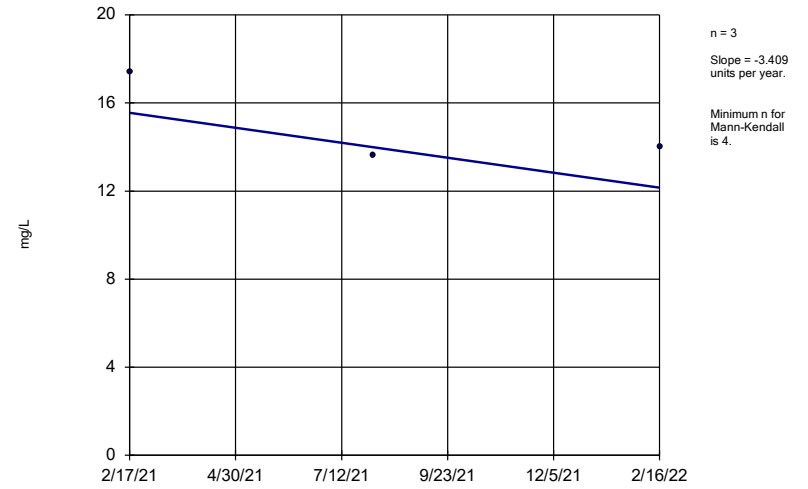
Constituent: Chloride Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-23H



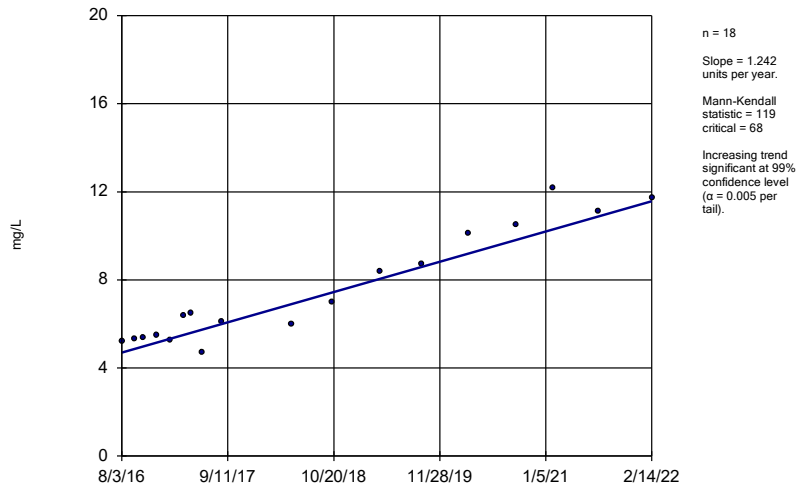
Constituent: Chloride Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-3



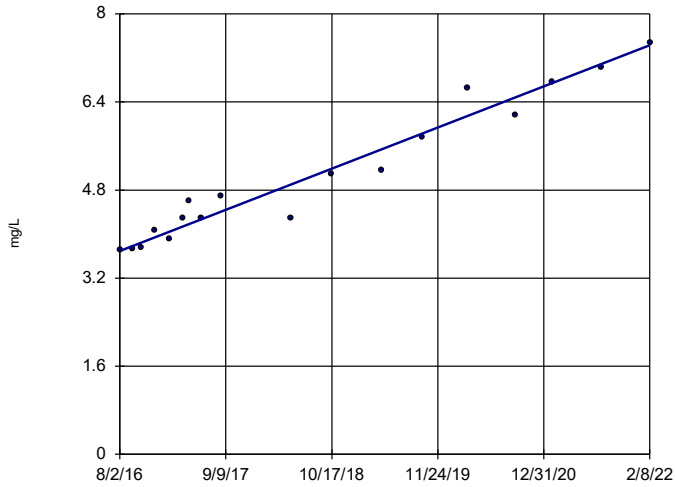
Constituent: Chloride Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-6D



Sen's Slope Estimator

GS-AP-MW-7

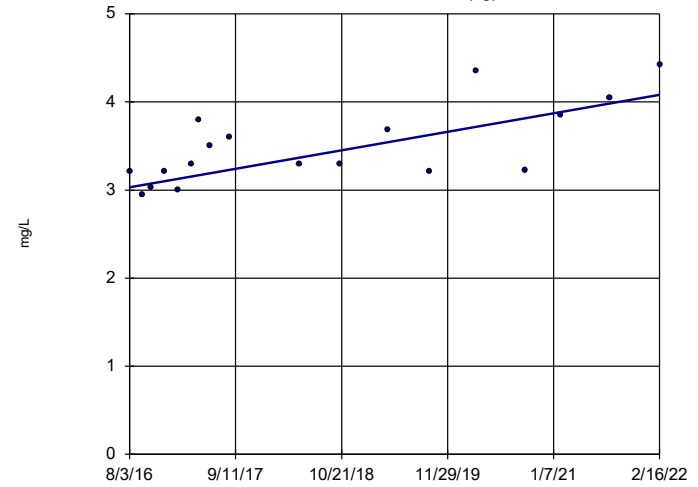


n = 18
 Slope = 0.6767 units per year.
 Mann-Kendall statistic = 140
 critical = 68
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

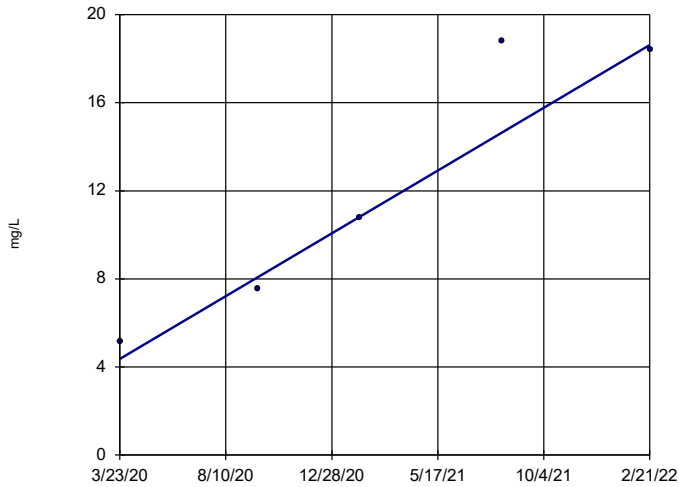


n = 18
 Slope = 0.1896 units per year.
 Mann-Kendall statistic = 85
 critical = 68
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-9V

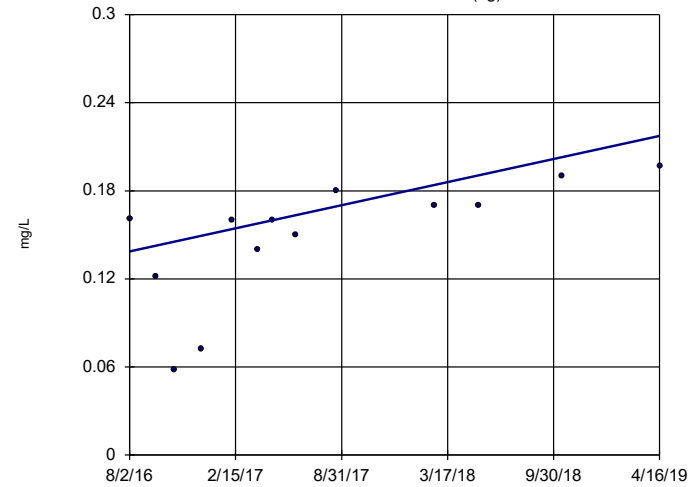


n = 5
 Slope = 7.435 units per year.
 Mann-Kendall statistic = 8
 critical = 12
 Trend not significant at 99% confidence level (α = 0.005 per tail).

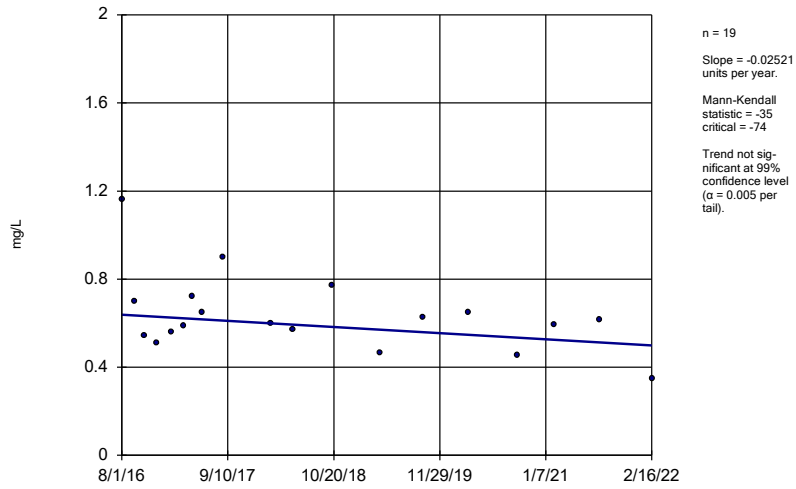
Constituent: Chloride Analysis Run 5/16/2022 4:05 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

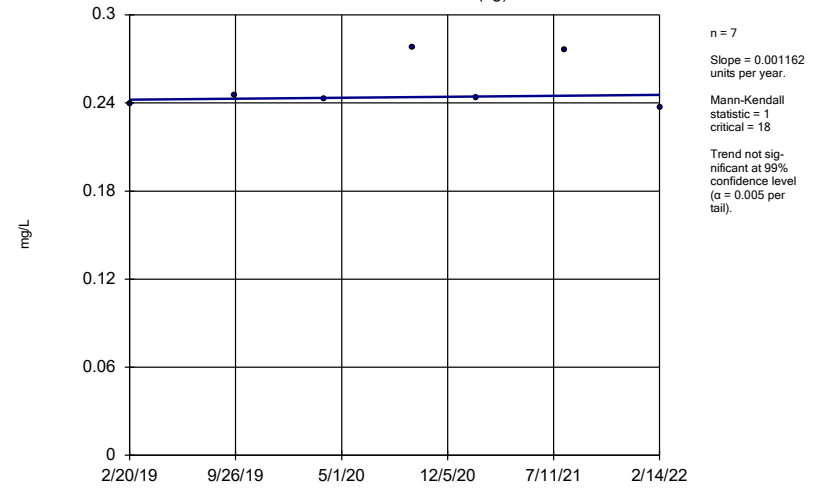


Sen's Slope Estimator GS-AP-MW-15



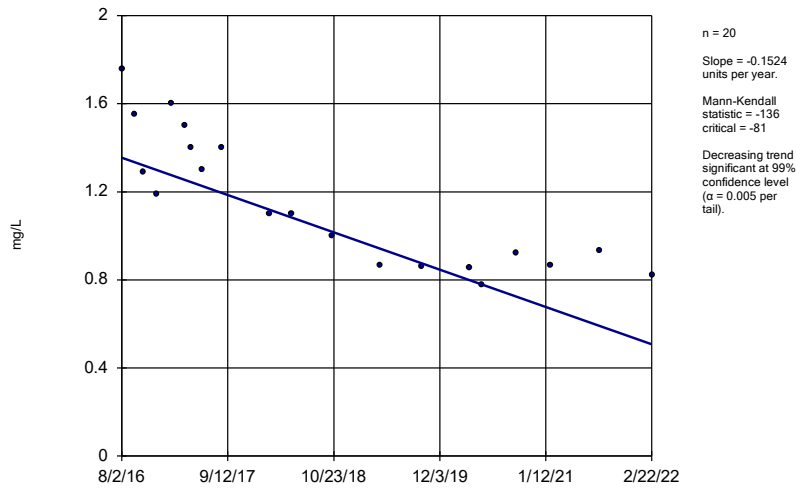
Constituent: Fluoride Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-17V (bg)



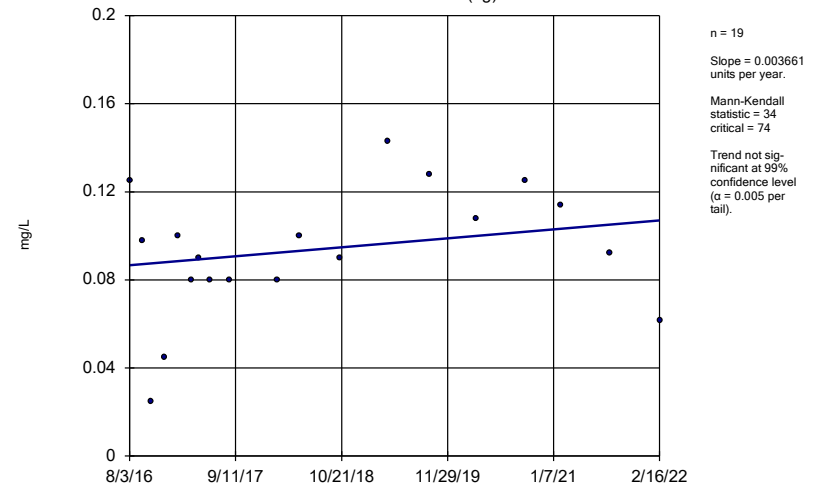
Constituent: Fluoride Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-2



Constituent: Fluoride Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

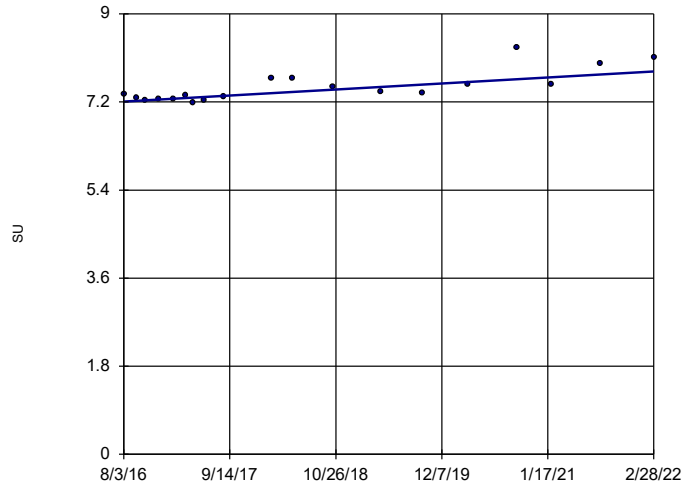
Sen's Slope Estimator GS-AP-MW-8 (bg)



Constituent: Fluoride Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-12

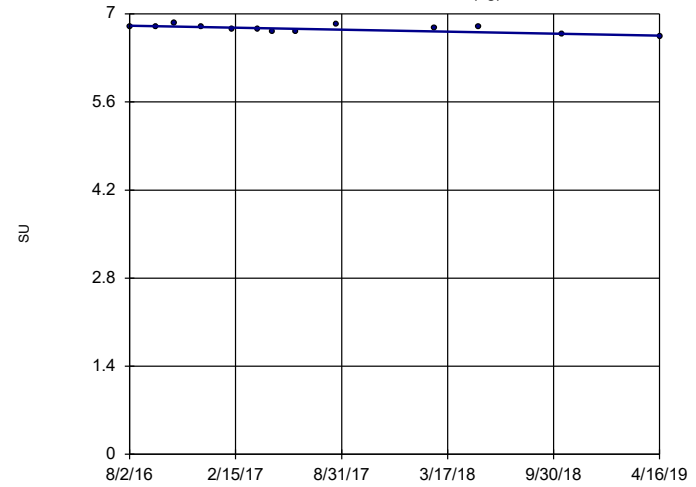


n = 19
 Slope = 0.1096
 units per year.
 Mann-Kendall
 statistic = 92
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

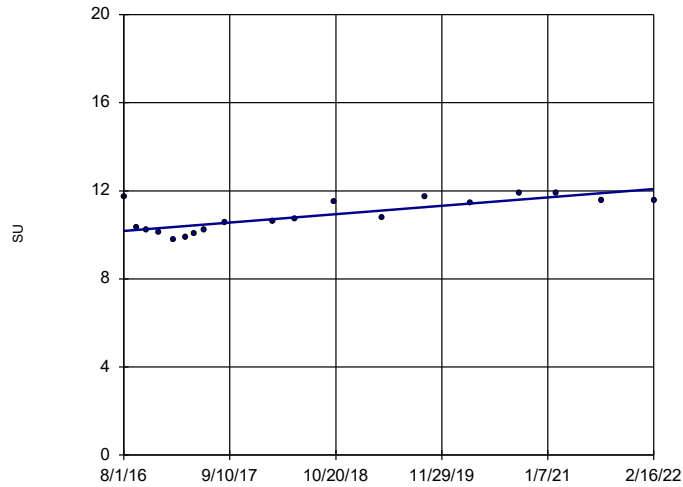


n = 13
 Slope = -0.05825
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-15

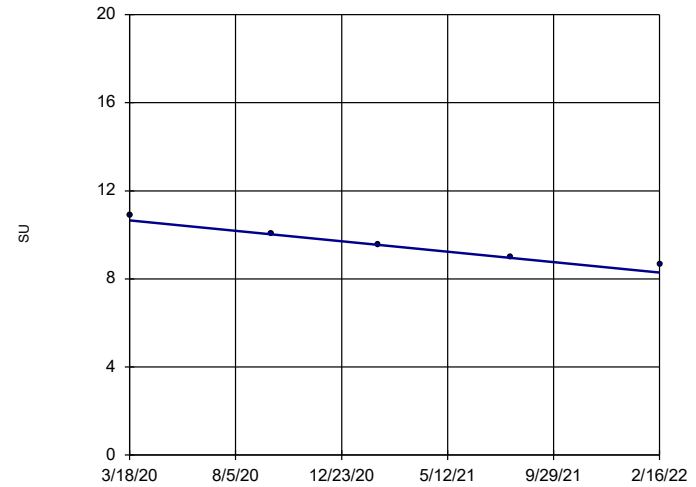


n = 19
 Slope = 0.3442
 units per year.
 Mann-Kendall
 statistic = 91
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

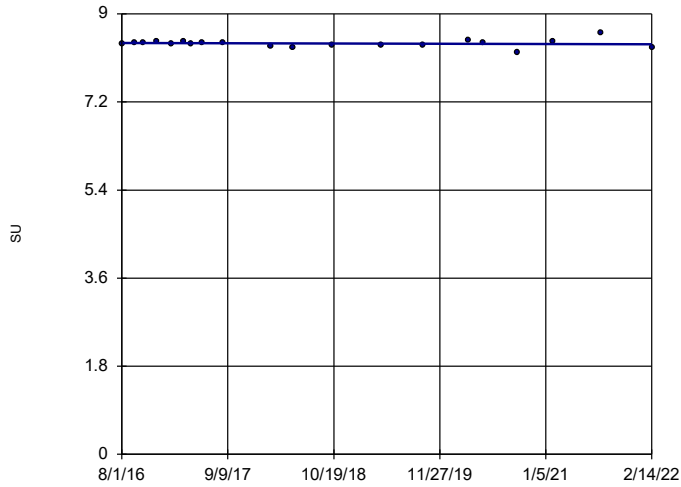
Sen's Slope Estimator

GS-AP-MW-15V



Sen's Slope Estimator

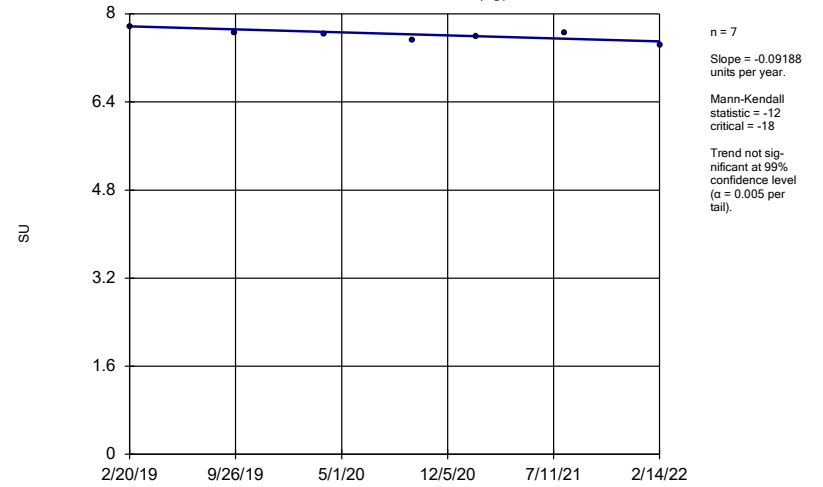
GS-AP-MW-17



Constituent: pH Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

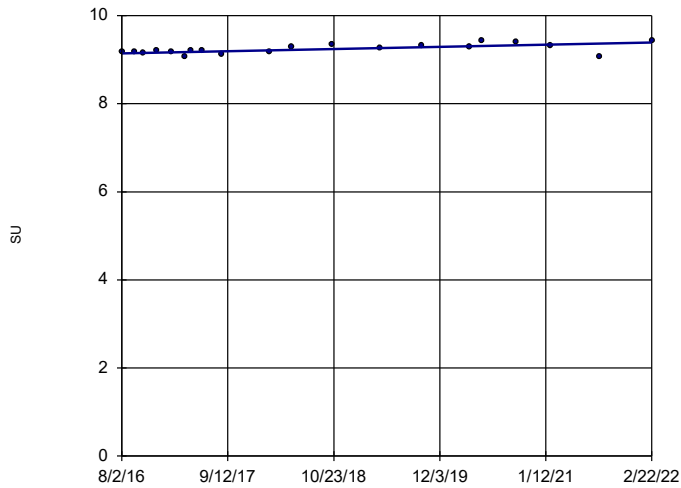
GS-AP-MW-17V (bg)



Constituent: pH Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

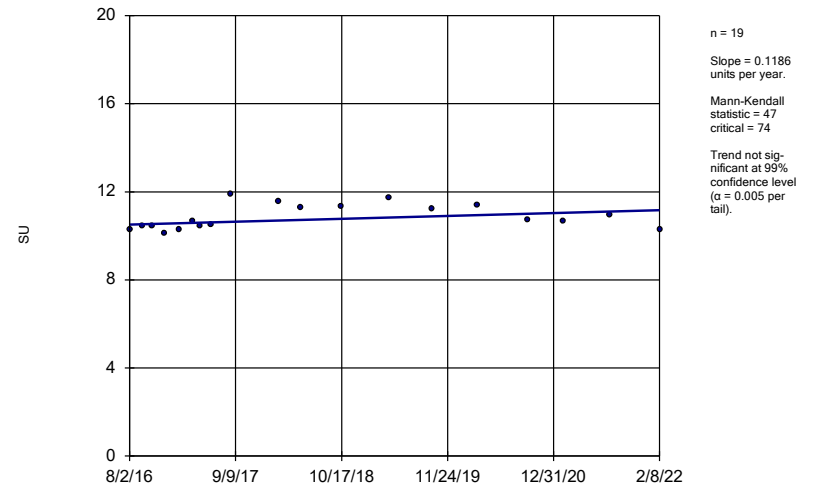
GS-AP-MW-2



Constituent: pH Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

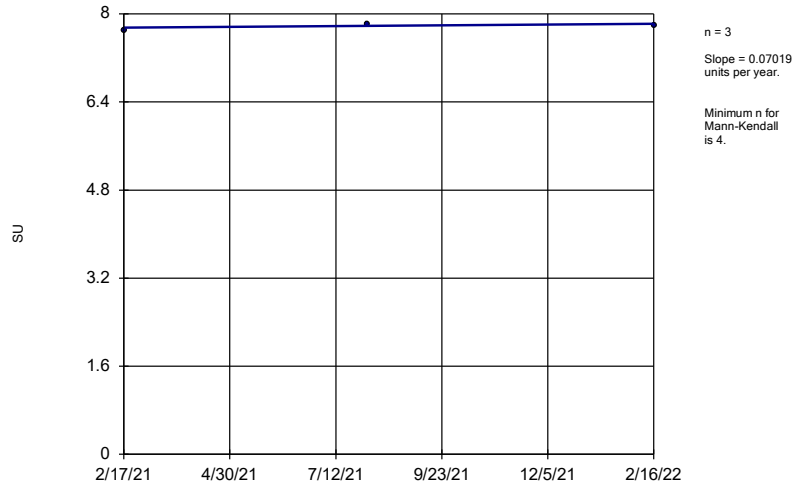
GS-AP-MW-21



Constituent: pH Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

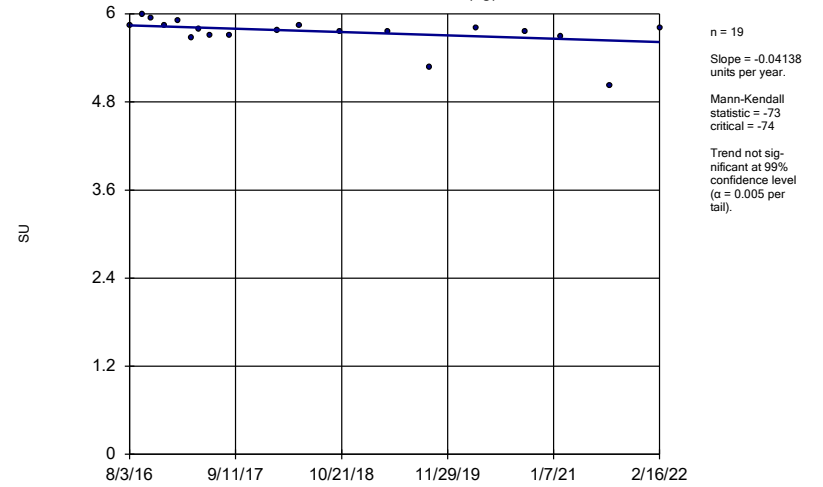
GS-AP-MW-3



Constituent: pH Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

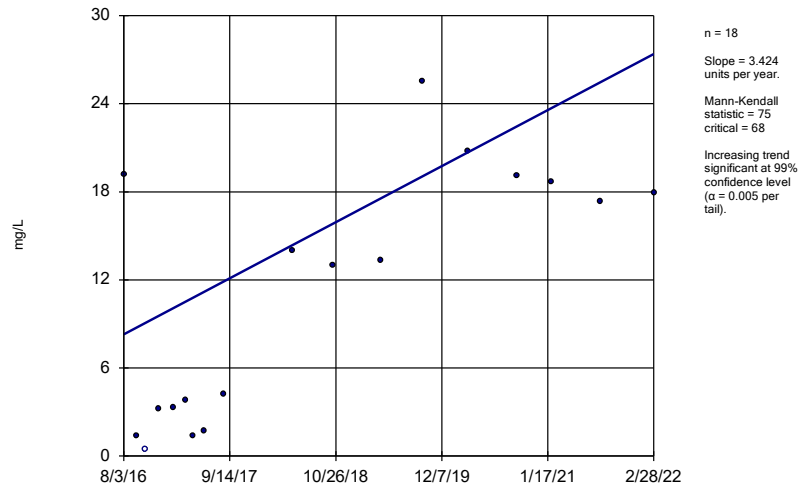
GS-AP-MW-8 (bg)



Constituent: pH Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

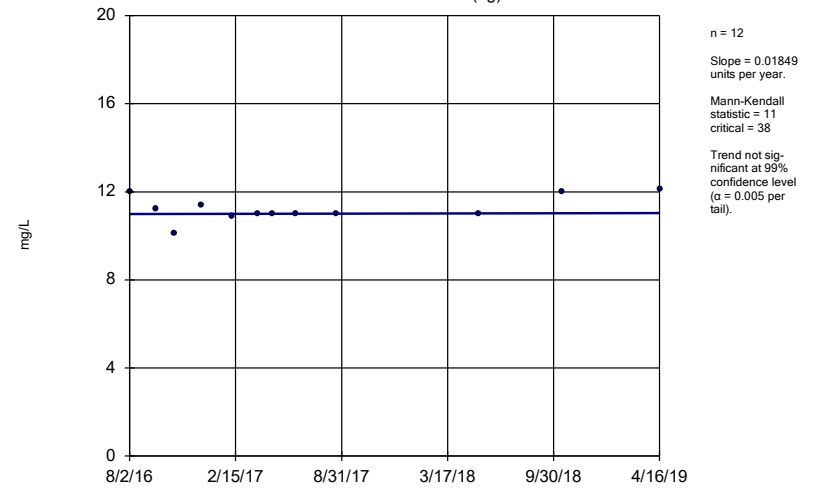
GS-AP-MW-12



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

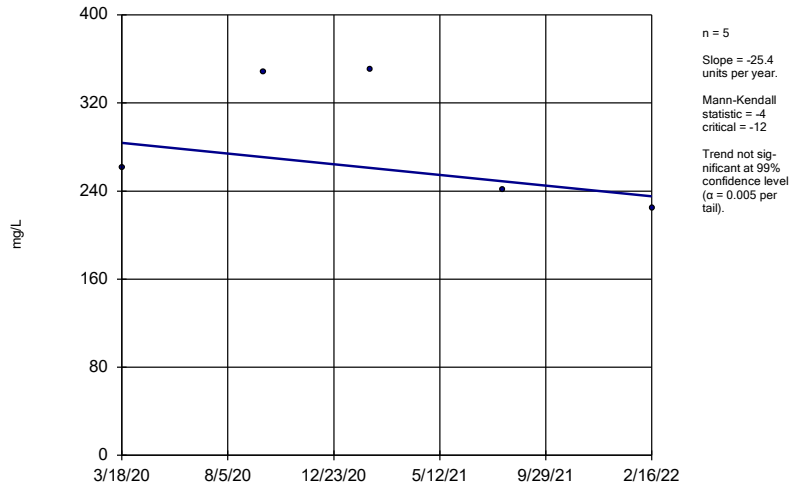
GS-AP-MW-13 (bg)



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

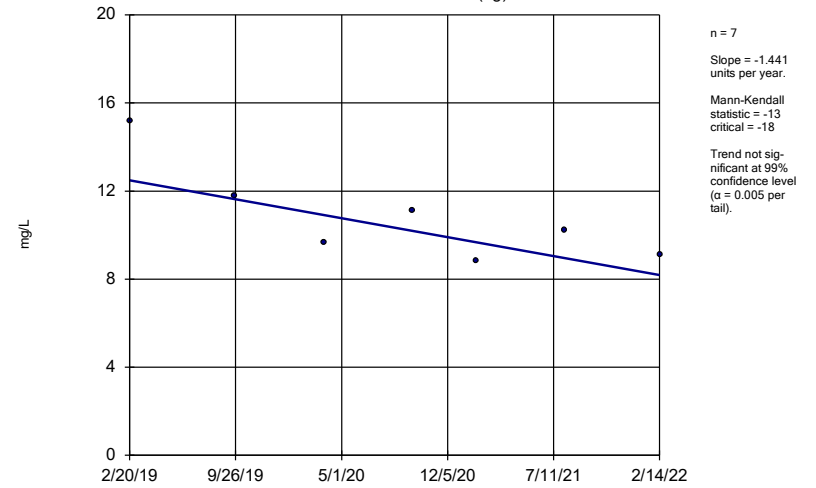
GS-AP-MW-15V



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

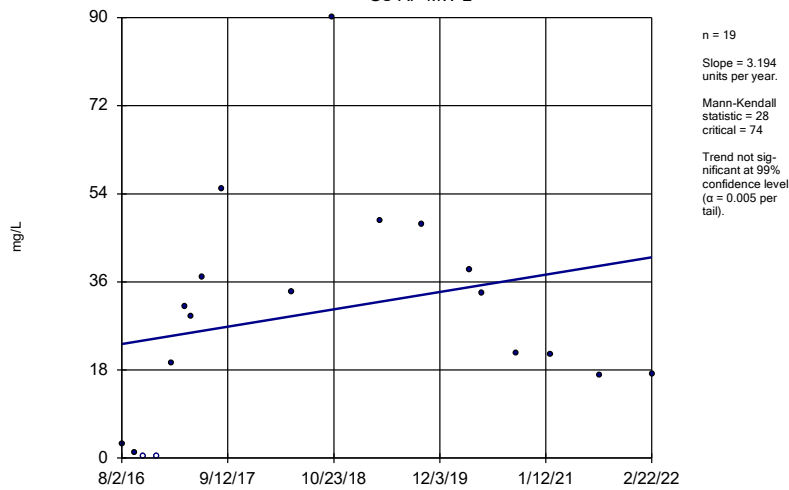
GS-AP-MW-17V (bg)



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

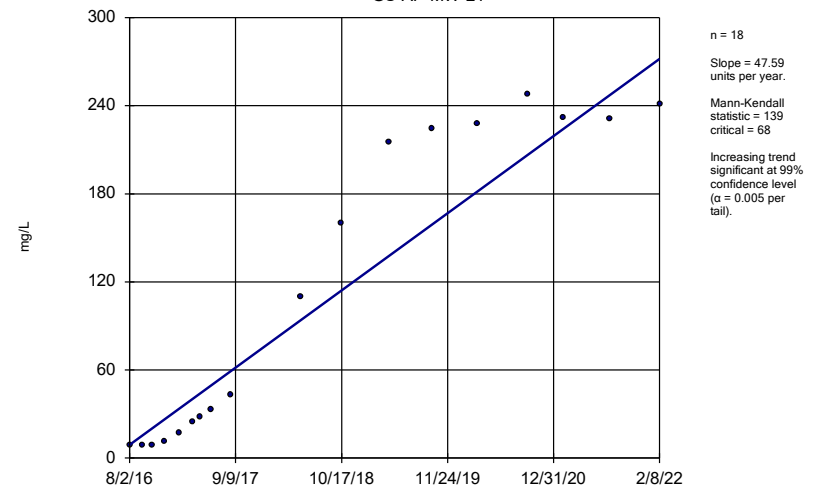
GS-AP-MW-2



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

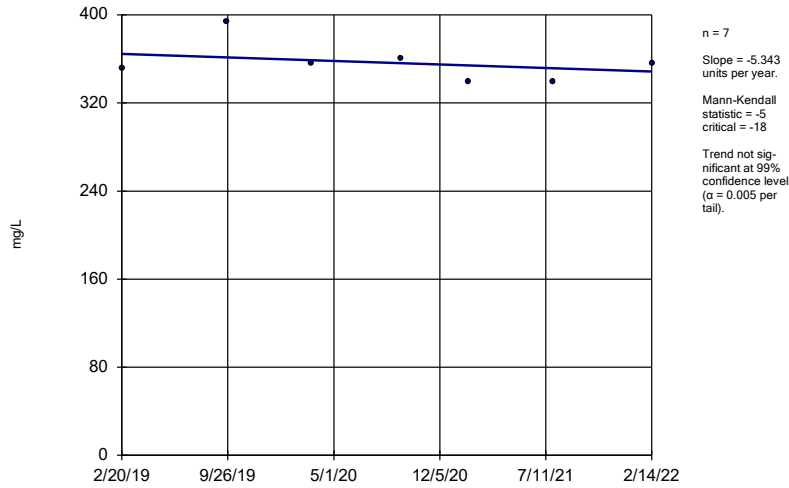
GS-AP-MW-21



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

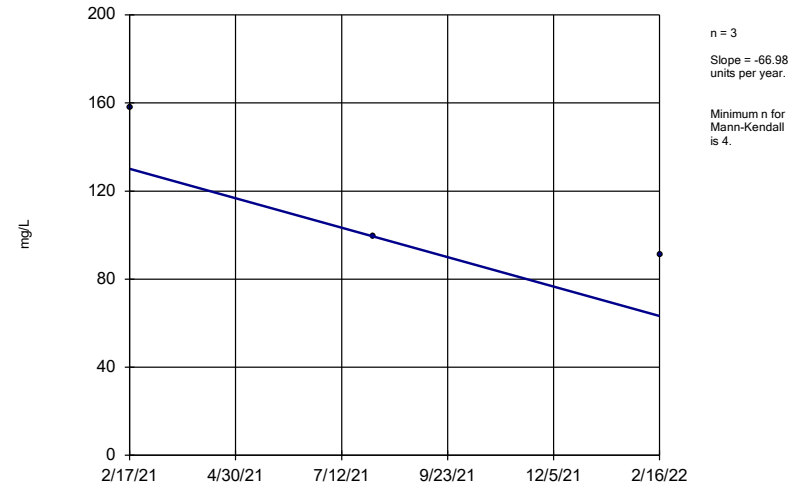
GS-AP-MW-23H



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

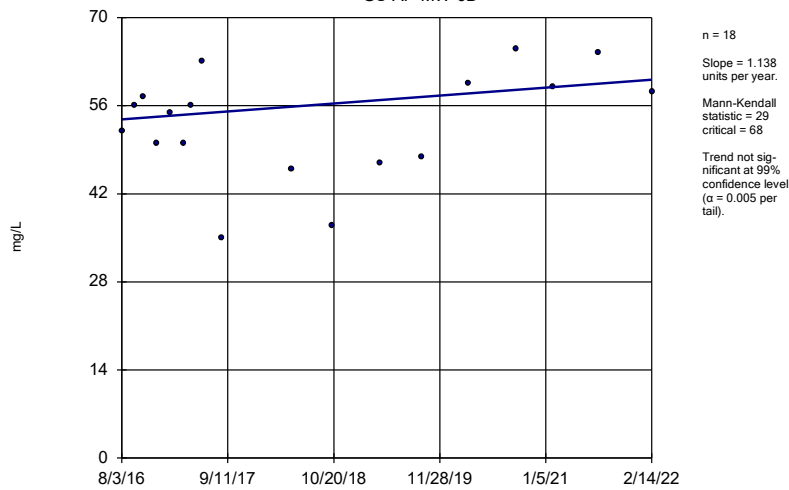
GS-AP-MW-3



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

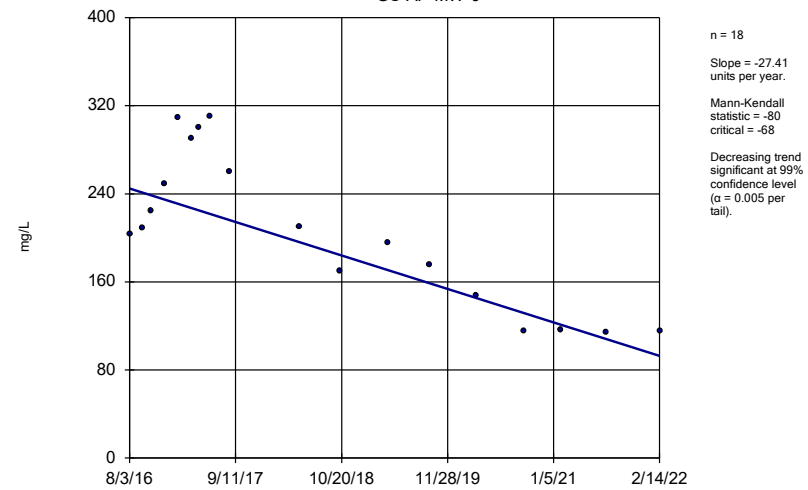
GS-AP-MW-6D



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

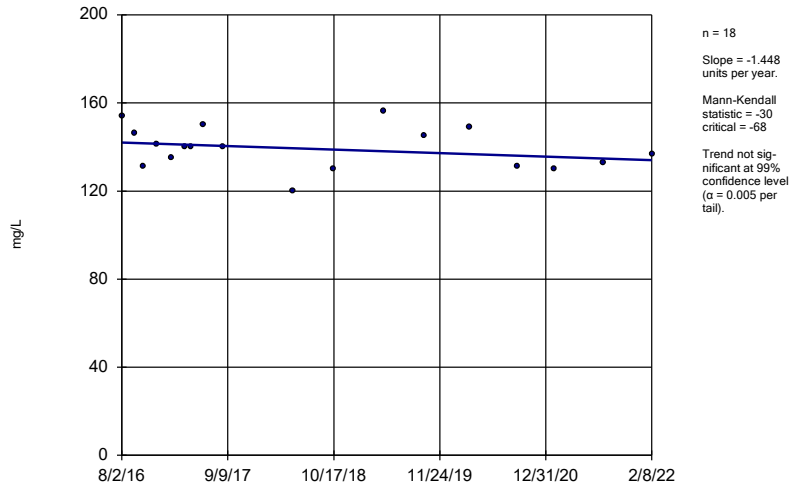
GS-AP-MW-6



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

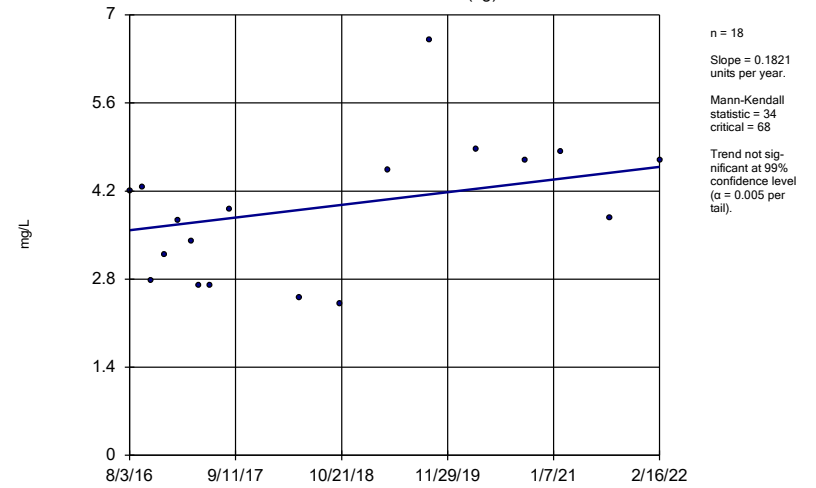
GS-AP-MW-7



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

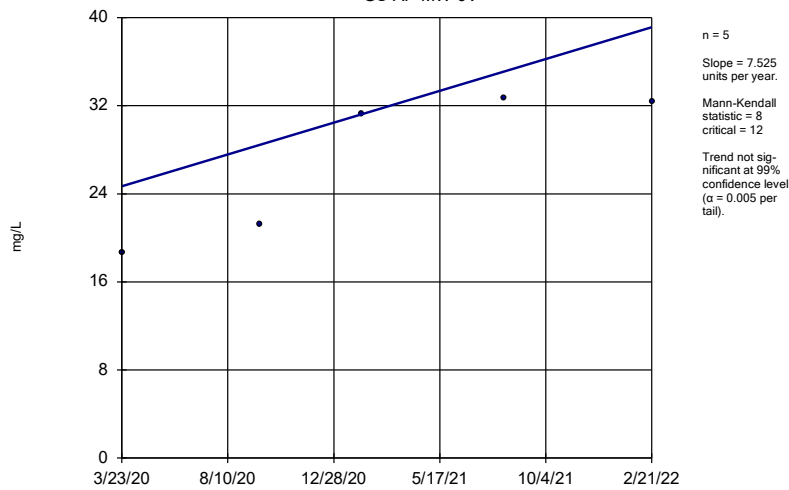
GS-AP-MW-8 (bg)



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

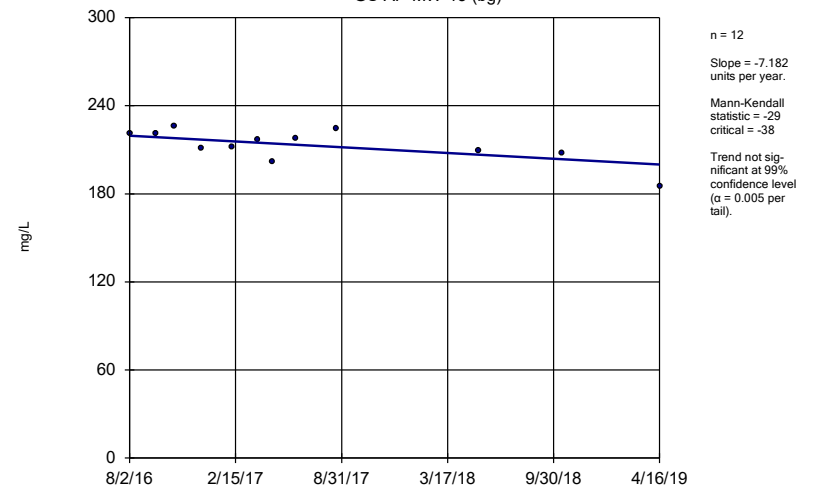
GS-AP-MW-9V



Constituent: Sulfate Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

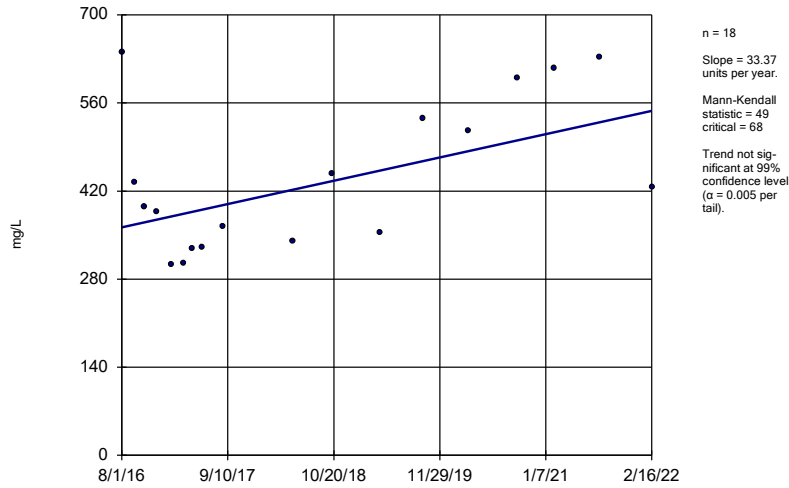
GS-AP-MW-13 (bg)



Constituent: TDS Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

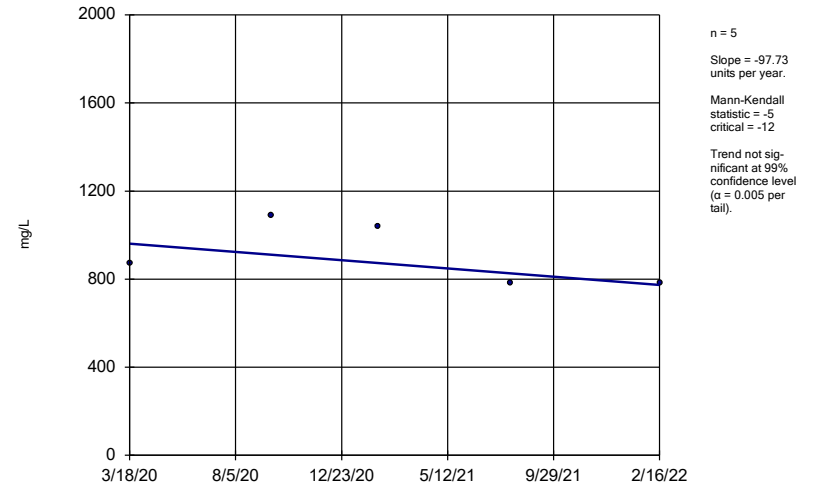
GS-AP-MW-15



Constituent: TDS Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

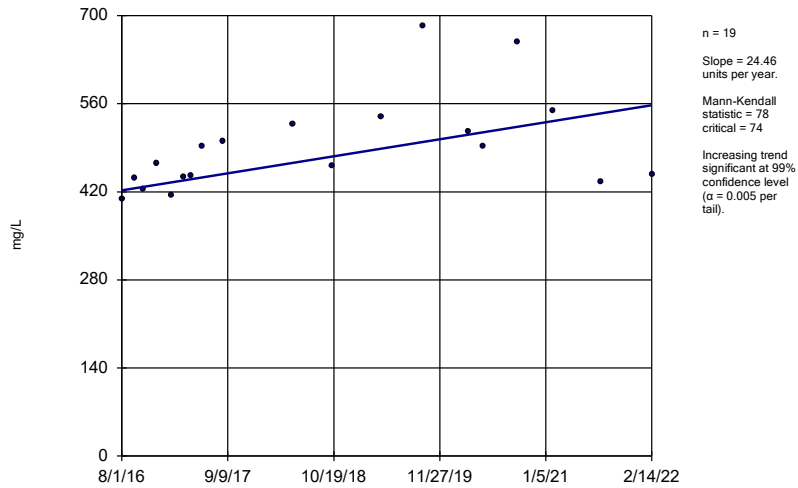
GS-AP-MW-15V



Constituent: TDS Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

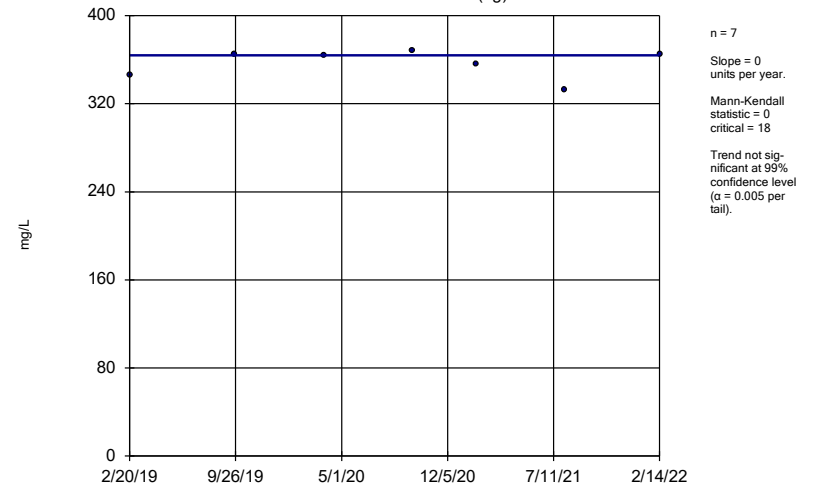
GS-AP-MW-17



Constituent: TDS Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

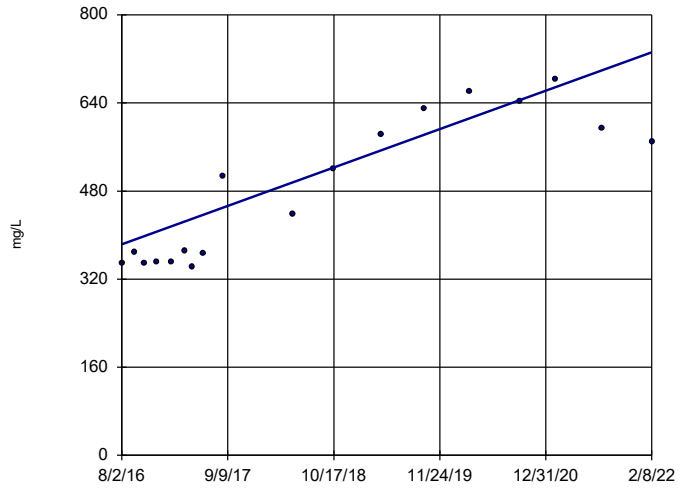
GS-AP-MW-17V (bg)



Constituent: TDS Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-21

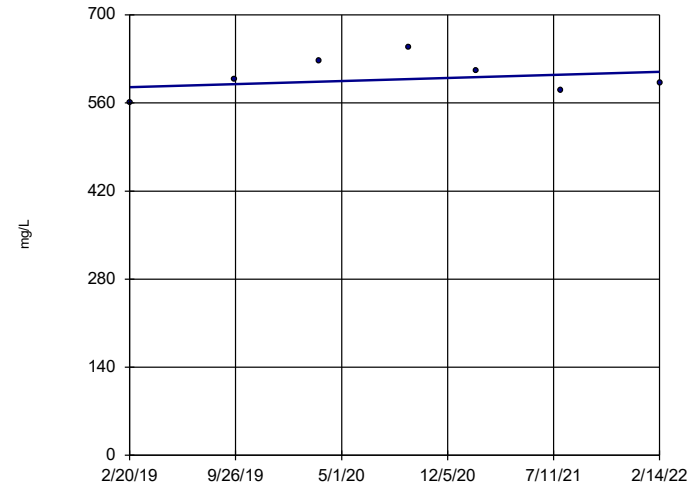


n = 18
 Slope = 63.17 units per year.
 Mann-Kendall statistic = 105
 critical = 68
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-23H

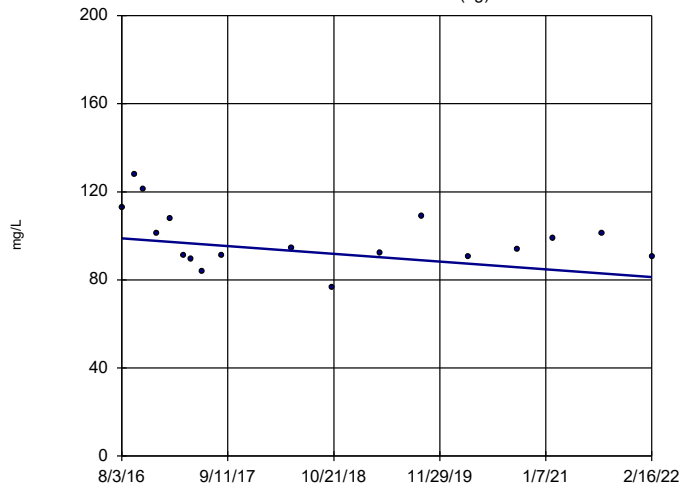


n = 7
 Slope = 8.221 units per year.
 Mann-Kendall statistic = 1
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)



n = 18
 Slope = -3.157 units per year.
 Mann-Kendall statistic = -39
 critical = -68
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/16/2022 4:06 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

FIGURE F.

Upper Tolerance Limits

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 1/3/2022, 11:49 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------|
| Antimony (mg/L) | n/a | 0.00115 | n/a | n/a | n/a | 35 | 94.29 | n/a | 0.1661 | NP Inter |
| Arsenic (mg/L) | n/a | 0.005 | n/a | n/a | n/a | 35 | 71.43 | n/a | 0.1661 | NP Inter |
| Barium (mg/L) | n/a | 0.353 | n/a | n/a | n/a | 35 | 0 | n/a | 0.1661 | NP Inter |
| Beryllium (mg/L) | n/a | 0.00102 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Cadmium (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Chromium (mg/L) | n/a | 0.01 | n/a | n/a | n/a | 35 | 77.14 | n/a | 0.1661 | NP Inter |
| Cobalt (mg/L) | n/a | 0.00362 | n/a | n/a | n/a | 35 | 80 | n/a | 0.1661 | NP Inter |
| Combined Radium 226 + 228 (pCi/L) | n/a | 1.25 | n/a | n/a | n/a | 35 | 0 | n/a | 0.1661 | NP Inter |
| Fluoride (mg/L) | n/a | 0.278 | n/a | n/a | n/a | 37 | 0 | n/a | 0.1499 | NP Inter |
| Lead (mg/L) | n/a | 0.00189 | n/a | n/a | n/a | 35 | 91.43 | n/a | 0.1661 | NP Inter |
| Lithium (mg/L) | n/a | 0.0809 | n/a | n/a | n/a | 35 | 54.29 | n/a | 0.1661 | NP Inter |
| Mercury (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Molybdenum (mg/L) | n/a | 0.00906 | n/a | n/a | n/a | 35 | 82.86 | n/a | 0.1661 | NP Inter |
| Selenium (mg/L) | n/a | 0.00102 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Thallium (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |

FIGURE G.

| GORGAS ASH POND GWPS | | | |
|-----------------------------|--------------|-------------------|-------------|
| Analyte | Units | Background | GWPS |
| Antimony | mg/L | 0.00115 | 0.006 |
| Arsenic | mg/L | 0.005 | 0.01 |
| Barium | mg/L | 0.353 | 2 |
| Beryllium | mg/L | 0.00102 | 0.004 |
| Cadmium | mg/L | 0.0002 | 0.005 |
| Chromium | mg/L | 0.01 | 0.1 |
| Cobalt | mg/L | 0.00362 | 0.006 |
| Combined Radium-226/228 | pCi/L | 1.25 | 5 |
| Fluoride | mg/L | 0.278 | 4 |
| Lead | mg/L | 0.00189 | 0.015 |
| Lithium | mg/L | 0.0809 | 0.0809 |
| Mercury | mg/L | 0.0005 | 0.002 |
| Molybdenum | mg/L | 0.00906 | 0.1 |
| Selenium | mg/L | 0.00102 | 0.05 |
| Thallium | mg/L | 0.0002 | 0.002 |

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

FIGURE H.

Confidence Intervals - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:49 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------|-------------|------------|------------|------------|------|---|---------|-----------|------|---------|-----------|-------|----------------|
| Arsenic (mg/L) | GS-AP-MW-6D | 0.1124 | 0.08272 | 0.01 | Yes | 8 | 0.09756 | 0.01401 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-7 | 0.285 | 0.207 | 0.01 | Yes | 8 | 0.2578 | 0.03296 | 0 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | GS-AP-MW-15 | 0.5085 | 0.2515 | 0.0809 | Yes | 8 | 0.38 | 0.1212 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21 | 0.3295 | 0.1496 | 0.0809 | Yes | 8 | 0.2396 | 0.08486 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-6D | 0.3185 | 0.256 | 0.0809 | Yes | 8 | 0.2873 | 0.02945 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-7 | 0.1954 | 0.1463 | 0.0809 | Yes | 8 | 0.1709 | 0.02316 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-7 | 0.2157 | 0.1766 | 0.1 | Yes | 8 | 0.1961 | 0.01844 | 0 | None | No | 0.01 | Param. |

Confidence Intervals - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:49 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|--------------------|---------------|----------------|-------------|------------|----------|----------------|----------------|----------|--------------|-----------|--------------|-----------------------|
| Antimony (mg/L) | GS-AP-MW-12 | 0.003069 | 0.000862 | 0.006 | No | 8 | 0.001717 | 0.001143 | 37.5 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-12V | 0.001982 | 0.00043 | 0.006 | No | 7 | 0.001206 | 0.0006533 | 0 | None | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-15 | 0.0009145 | 0.0006855 | 0.006 | No | 8 | 0.0008825 | 0.0001459 | 37.5 | Kaplan-Meier | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-15V | 0.003521 | 0.0005073 | 0.006 | No | 5 | 0.002014 | 0.0008991 | 0 | None | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-21V | 0.00102 | 0.000661 | 0.006 | No | 5 | 0.0009104 | 0.0001617 | 60 | None | No | 0.031 | NP (NDs) |
| Antimony (mg/L) | GS-AP-MW-6D | 0.00102 | 0.000828 | 0.006 | No | 8 | 0.000996 | 0.00006788 | 87.5 | None | No | 0.004 | NP (NDs) |
| Antimony (mg/L) | GS-AP-MW-6 | 0.001131 | 0.0005876 | 0.006 | No | 8 | 0.0009397 | 0.0002121 | 50 | Kaplan-Meier | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-7 | 0.00105 | 0.00102 | 0.006 | No | 8 | 0.001024 | 0.00001061 | 87.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-12 | 0.01573 | 0.002991 | 0.01 | No | 8 | 0.009359 | 0.006008 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-12V | 0.002474 | 0.000923 | 0.01 | No | 7 | 0.001699 | 0.0006529 | 14.29 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-15 | 0.01829 | 0.007251 | 0.01 | No | 8 | 0.01277 | 0.005205 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-15V | 0.01901 | 0.006112 | 0.01 | No | 5 | 0.01256 | 0.003848 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-16D | 0.0025 | 0.0001 | 0.01 | No | 8 | 0.001651 | 0.001177 | 62.5 | None | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-17 | 0.00557 | 0.001415 | 0.01 | No | 8 | 0.003493 | 0.00196 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-19 | 0.003218 | 0.001387 | 0.01 | No | 8 | 0.002303 | 0.0008633 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-21 | 0.0025 | 0.00046 | 0.01 | No | 8 | 0.001765 | 0.001015 | 62.5 | None | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-21V | 0.0169 | -0.001169 | 0.01 | No | 5 | 0.007864 | 0.005391 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-6D | 0.1124 | 0.08272 | 0.01 | Yes | 8 | 0.09756 | 0.01401 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-6 | 0.01251 | 0.005911 | 0.01 | No | 8 | 0.009144 | 0.003389 | 0 | None | sqrt(x) | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-7 | 0.285 | 0.207 | 0.01 | Yes | 8 | 0.2578 | 0.03296 | 0 | None | No | 0.004 | NP (normality) |
| Arsenic (mg/L) | GS-AP-MW-9V | 0.0003914 | 0.00008019 | 0.01 | No | 5 | 0.001126 | 0.001256 | 40 | Kaplan-Meier | x^(1/3) | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-12 | 0.2016 | 0.1671 | 2 | No | 8 | 0.1848 | 0.01767 | 0 | None | x*5 | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-12V | 1.532 | 1.074 | 2 | No | 7 | 1.303 | 0.1925 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-15 | 0.271 | 0.0913 | 2 | No | 8 | 0.1599 | 0.06805 | 0 | None | No | 0.004 | NP (normality) |
| Barium (mg/L) | GS-AP-MW-15V | 0.2141 | 0.1455 | 2 | No | 5 | 0.1798 | 0.0205 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-16D | 0.3469 | 0.3211 | 2 | No | 8 | 0.334 | 0.01213 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-17 | 0.135 | 0.0883 | 2 | No | 8 | 0.1038 | 0.01811 | 0 | None | No | 0.004 | NP (normality) |
| Barium (mg/L) | GS-AP-MW-19 | 0.3562 | 0.3238 | 2 | No | 8 | 0.34 | 0.01532 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-2 | 0.06558 | 0.05192 | 2 | No | 8 | 0.05875 | 0.006444 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-21 | 0.1544 | 0.09569 | 2 | No | 8 | 0.125 | 0.02769 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-21V | 0.07222 | 0.0261 | 2 | No | 5 | 0.04916 | 0.01376 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-6D | 0.8806 | 0.4254 | 2 | No | 8 | 0.653 | 0.2147 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-6 | 0.1208 | 0.07153 | 2 | No | 8 | 0.09615 | 0.02323 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-7 | 0.1429 | 0.06267 | 2 | No | 8 | 0.1028 | 0.03783 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-9V | 0.2167 | 0.1425 | 2 | No | 5 | 0.1796 | 0.02213 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | GS-AP-MW-16D | 0.00109 | 0.00102 | 0.004 | No | 8 | 0.001029 | 0.00002475 | 87.5 | None | No | 0.004 | NP (NDs) |
| Beryllium (mg/L) | GS-AP-MW-2 | 0.00102 | 0.00102 | 0.004 | No | 8 | 0.00102 | 0 | 100 | None | No | 0.004 | NP (NDs) |
| Beryllium (mg/L) | GS-AP-MW-6 | 0.00102 | 0.000794 | 0.004 | No | 8 | 0.0009917 | 0.0000799 | 87.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-12 | 0.00102 | 0.00031 | 0.1 | No | 8 | 0.0009312 | 0.000251 | 87.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-12V | 0.005688 | -0.00009377 | 0.1 | No | 7 | 0.002797 | 0.002434 | 14.29 | None | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-15 | 0.00102 | 0.00048 | 0.1 | No | 8 | 0.0008875 | 0.0002034 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-15V | 0.007384 | 0.00002359 | 0.1 | No | 5 | 0.00242 | 0.002755 | 0 | None | sqrt(x) | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-16D | 0.00107 | 0.00025 | 0.1 | No | 8 | 0.0008875 | 0.0002855 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-17 | 0.00255 | 0.00034 | 0.1 | No | 8 | 0.00105 | 0.0006728 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-19 | 0.00102 | 0.000258 | 0.1 | No | 8 | 0.0008372 | 0.0003388 | 75 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-2 | 0.00102 | 0.00044 | 0.1 | No | 8 | 0.0008619 | 0.000248 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-21 | 0.00102 | 0.0004 | 0.1 | No | 8 | 0.0008281 | 0.0002801 | 62.5 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-21V | 0.001222 | -0.0001834 | 0.1 | No | 5 | 0.0008016 | 0.0004688 | 40 | Kaplan-Meier | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-6D | 0.00102 | 0.00024 | 0.1 | No | 8 | 0.0007305 | 0.0003996 | 62.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-6 | 0.00102 | 0.00024 | 0.1 | No | 8 | 0.0007335 | 0.0003955 | 62.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-7 | 0.005355 | 0.0005285 | 0.1 | No | 8 | 0.003316 | 0.002375 | 25 | Kaplan-Meier | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-9V | 0.00102 | 0.000228 | 0.1 | No | 5 | 0.0007156 | 0.0004174 | 60 | Kaplan-Meier | No | 0.031 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-12V | 0.001363 | 0.00008055 | 0.006 | No | 7 | 0.0007457 | 0.0009803 | 42.86 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Cobalt (mg/L) | GS-AP-MW-15 | 0.0002 | 0.00009 | 0.006 | No | 8 | 0.0001862 | 0.00003889 | 87.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-16D | 0.000252 | 0.00009 | 0.006 | No | 8 | 0.0001927 | 0.00004533 | 75 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-17 | 0.0002 | 0.000102 | 0.006 | No | 8 | 0.0001877 | 0.00003465 | 87.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-6 | 0.000663 | 0.0002 | 0.006 | No | 8 | 0.0003691 | 0.0002335 | 62.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-7 | 0.00381 | 0.0009129 | 0.006 | No | 8 | 0.001821 | 0.001613 | 25 | Kaplan-Meier | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-12 | 0.9125 | 0.3477 | 5 | No | 8 | 0.6301 | 0.2664 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-12V | 1.41 | 0.5664 | 5 | No | 7 | 0.9881 | 0.355 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-15 | 0.9239 | 0.1663 | 5 | No | 8 | 0.5451 | 0.3574 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-15V | 1.165 | 0.2678 | 5 | No | 5 | 0.7162 | 0.2676 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-16D | 0.8132 | 0.08525 | 5 | No | 8 | 0.4493 | 0.3434 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-17 | 1.471 | 0.03889 | 5 | No | 8 | 0.6978 | 0.815 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-19 | 1.573 | 0.4756 | 5 | No | 8 | 1.024 | 0.5175 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-2 | 1.484 | 0.1457 | 5 | No | 8 | 0.8573 | 1.286 | 0 | None | ln(x) | 0.01 | Param. |

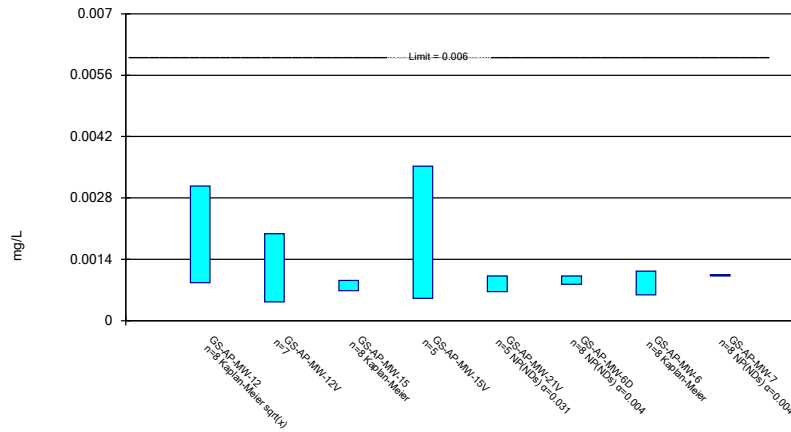
Confidence Intervals - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 5/16/2022, 4:49 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|--------------------|---------------|---------------|---------------|------------|----------|---------------|----------------|----------|--------------|--------------------|-------------|----------------|
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-21 | 0.8491 | 0.3681 | 5 | No | 8 | 0.6086 | 0.2269 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-21V | 1.09 | 0.3748 | 5 | No | 5 | 0.7322 | 0.2133 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-6D | 0.992 | 0.412 | 5 | No | 8 | 0.702 | 0.2736 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-6 | 1.119 | 0.3466 | 5 | No | 8 | 0.7328 | 0.3643 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-7 | 1.404 | 0.3467 | 5 | No | 8 | 0.8751 | 0.4985 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-9V | 1.045 | 0.036 | 5 | No | 5 | 0.375 | 0.3359 | 0 | None | x ^(1/3) | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-12 | 0.23 | 0.12 | 4 | No | 8 | 0.1516 | 0.0404 | 0 | None | No | 0.004 | NP (normality) |
| Fluoride (mg/L) | GS-AP-MW-12V | 0.1977 | 0.1537 | 4 | No | 7 | 0.1757 | 0.01854 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.7064 | 0.4223 | 4 | No | 8 | 0.5644 | 0.134 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-15V | 0.396 | 0.176 | 4 | No | 5 | 0.286 | 0.06565 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-16D | 0.1477 | 0.1035 | 4 | No | 8 | 0.1256 | 0.02084 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-17 | 0.3583 | 0.2372 | 4 | No | 8 | 0.2978 | 0.0571 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-19 | 0.3488 | 0.2697 | 4 | No | 8 | 0.3093 | 0.03731 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.9152 | 0.809 | 4 | No | 8 | 0.8621 | 0.05008 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-21 | 0.2566 | 0.1912 | 4 | No | 8 | 0.2239 | 0.03084 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-21V | 0.6664 | 0.3292 | 4 | No | 5 | 0.4978 | 0.1006 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-6D | 0.1527 | 0.118 | 4 | No | 8 | 0.1354 | 0.01639 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-6 | 0.2517 | 0.13 | 4 | No | 8 | 0.1909 | 0.05739 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-7 | 0.1228 | 0.0975 | 4 | No | 8 | 0.1102 | 0.01194 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-9V | 0.191 | 0.1638 | 4 | No | 5 | 0.1774 | 0.008142 | 0 | None | No | 0.01 | Param. |
| Lead (mg/L) | GS-AP-MW-12V | 0.001929 | 0.0001048 | 0.015 | No | 7 | 0.0009371 | 0.0009689 | 28.57 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Lead (mg/L) | GS-AP-MW-15 | 0.0002 | 0.00008 | 0.015 | No | 8 | 0.0001709 | 0.00005387 | 75 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-16D | 0.000873 | 0.00016 | 0.015 | No | 8 | 0.0002791 | 0.0002404 | 75 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-17 | 0.0002 | 0.000175 | 0.015 | No | 8 | 0.0001969 | 0.00008839 | 87.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-6 | 0.0002 | 0.00008 | 0.015 | No | 8 | 0.000185 | 0.00004243 | 87.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-7 | 0.003308 | 0.001125 | 0.015 | No | 8 | 0.001712 | 0.001335 | 25 | Kaplan-Meier | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-12 | 0.04049 | 0.0244 | 0.0809 | No | 8 | 0.0323 | 0.008869 | 0 | None | ln(x) | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-12V | 0.05505 | 0.03098 | 0.0809 | No | 7 | 0.04301 | 0.01013 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-15 | 0.5085 | 0.2515 | 0.0809 | Yes | 8 | 0.38 | 0.1212 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-15V | 0.2077 | 0.0417 | 0.0809 | No | 5 | 0.1247 | 0.04952 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-16D | 0.03642 | 0.03288 | 0.0809 | No | 8 | 0.03465 | 0.001666 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-17 | 0.068 | 0.0572 | 0.0809 | No | 8 | 0.06111 | 0.004307 | 0 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | GS-AP-MW-19 | 0.04422 | 0.03123 | 0.0809 | No | 8 | 0.03773 | 0.006132 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-2 | 0.04552 | 0.03843 | 0.0809 | No | 8 | 0.04198 | 0.003343 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21 | 0.3295 | 0.1496 | 0.0809 | Yes | 8 | 0.2396 | 0.08486 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21V | 0.1765 | 0.03891 | 0.0809 | No | 5 | 0.1077 | 0.04105 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-6D | 0.3185 | 0.256 | 0.0809 | Yes | 8 | 0.2873 | 0.02945 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-6 | 0.06972 | 0.01818 | 0.0809 | No | 8 | 0.04395 | 0.02431 | 12.5 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-7 | 0.1954 | 0.1463 | 0.0809 | Yes | 8 | 0.1709 | 0.02316 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-9V | 0.03147 | 0.02869 | 0.0809 | No | 5 | 0.03008 | 0.0008319 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-12 | 0.00903 | 0.00444 | 0.1 | No | 8 | 0.005835 | 0.001704 | 37.5 | None | No | 0.004 | NP (normality) |
| Molybdenum (mg/L) | GS-AP-MW-12V | 0.00715 | 0.0006276 | 0.1 | No | 7 | 0.003889 | 0.002745 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-15 | 0.07362 | 0.03743 | 0.1 | No | 8 | 0.05553 | 0.01708 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-15V | 0.06049 | 0.01831 | 0.1 | No | 5 | 0.0394 | 0.01259 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-16D | 0.005 | 0.00014 | 0.1 | No | 8 | 0.003269 | 0.002394 | 62.5 | None | No | 0.004 | NP (NDs) |
| Molybdenum (mg/L) | GS-AP-MW-17 | 0.008695 | 0.002365 | 0.1 | No | 8 | 0.00553 | 0.002986 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-19 | 0.006817 | 0.00317 | 0.1 | No | 8 | 0.004994 | 0.001721 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-2 | 0.005472 | 0.001865 | 0.1 | No | 8 | 0.003616 | 0.001944 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-21 | 0.08602 | 0.02518 | 0.1 | No | 8 | 0.0556 | 0.0287 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-21V | 0.1464 | 0.03628 | 0.1 | No | 5 | 0.09132 | 0.03284 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-6D | 0.01081 | 0.006782 | 0.1 | No | 8 | 0.008795 | 0.001899 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-6 | 0.04298 | 0.004773 | 0.1 | No | 8 | 0.02388 | 0.01802 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-7 | 0.2157 | 0.1766 | 0.1 | Yes | 8 | 0.1961 | 0.01844 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-9V | 0.003353 | 0.0002661 | 0.1 | No | 5 | 0.003086 | 0.001921 | 40 | Kaplan-Meier | No | 0.01 | Param. |
| Selenium (mg/L) | GS-AP-MW-6 | 0.01 | 0.000794 | 0.05 | No | 8 | 0.00661 | 0.00468 | 62.5 | None | No | 0.004 | NP (NDs) |

Parametric and Non-Parametric (NP) Confidence Interval

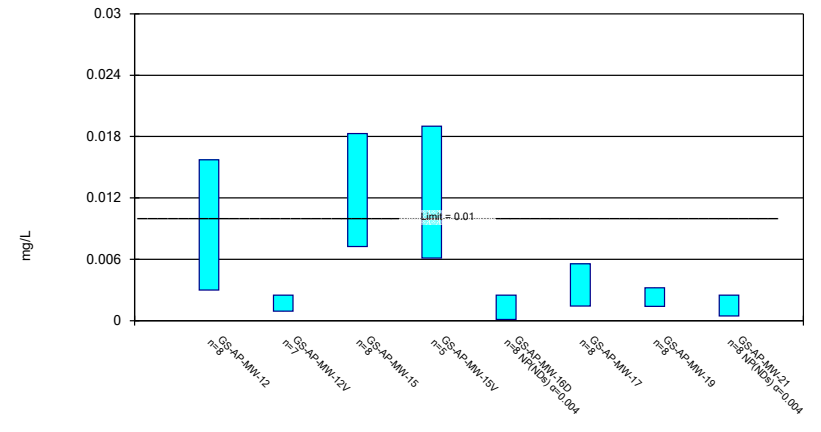
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 5/16/2022 4:47 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

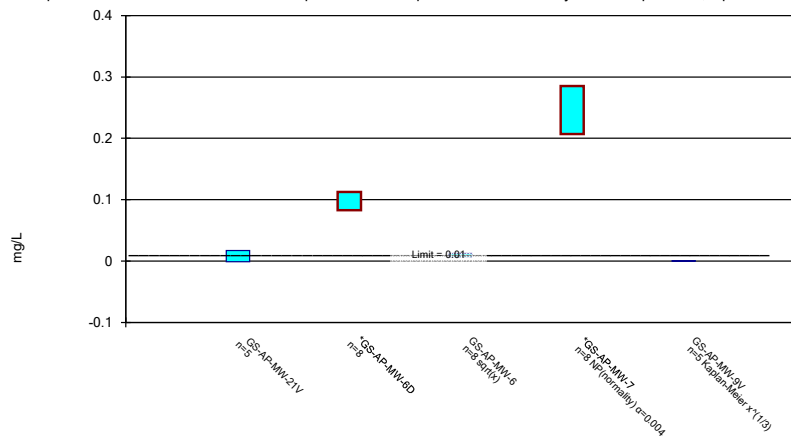
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Constituent: Arsenic Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

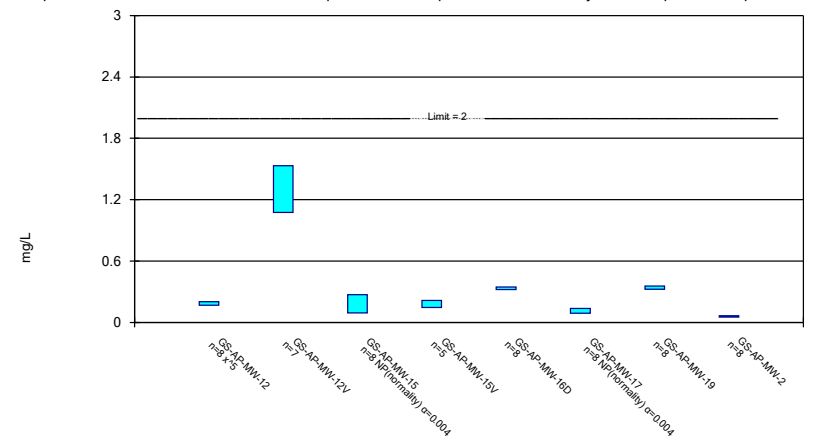
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Constituent: Arsenic Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

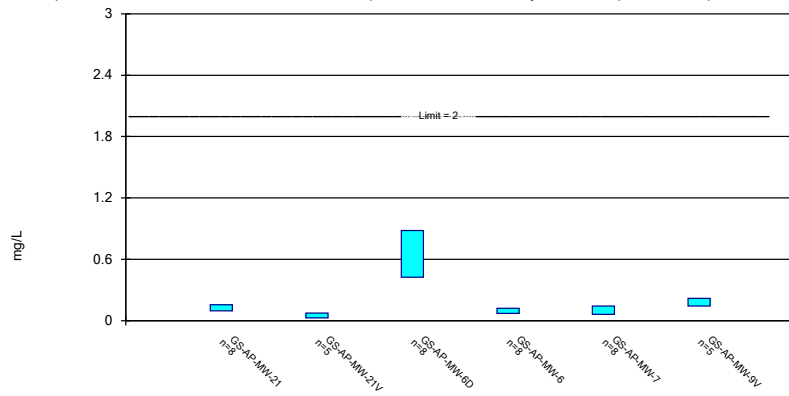
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Constituent: Barium Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric Confidence Interval

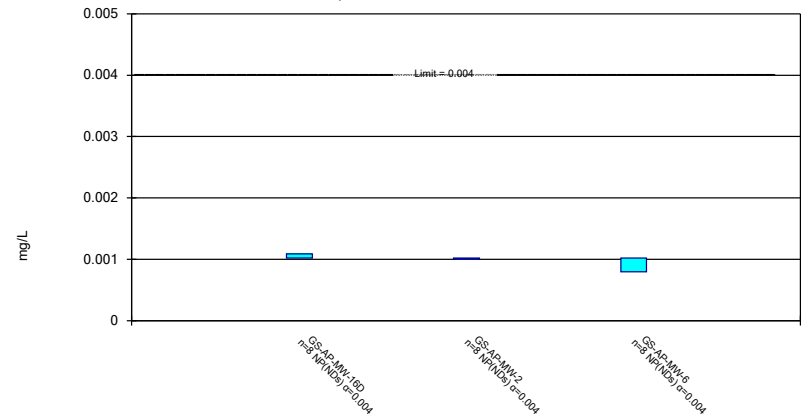
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Constituent: Barium Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Non-Parametric Confidence Interval

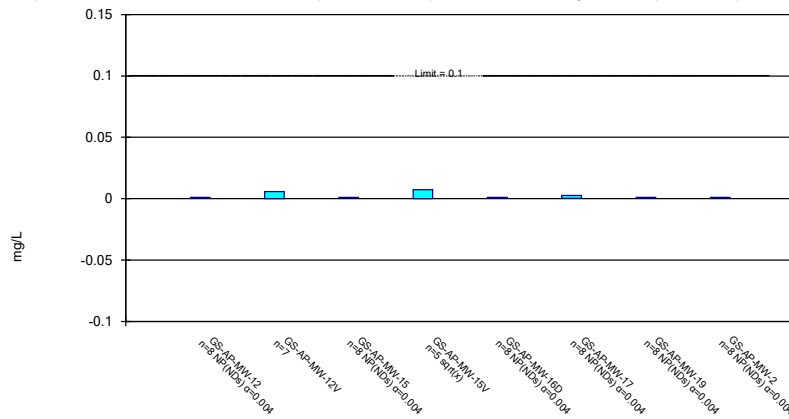
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Constituent: Beryllium Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

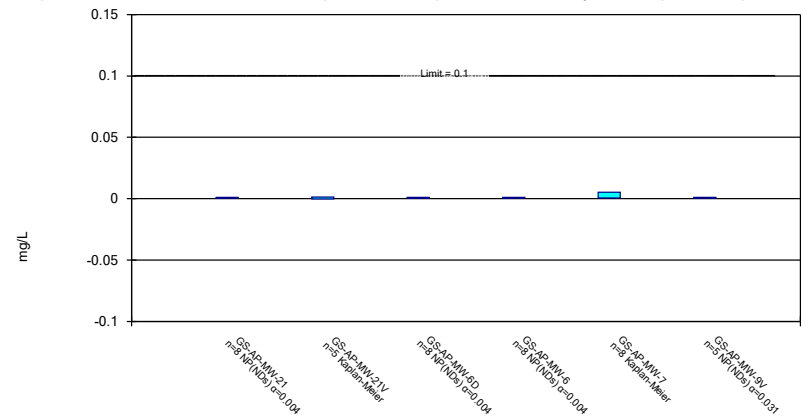
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Constituent: Chromium Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

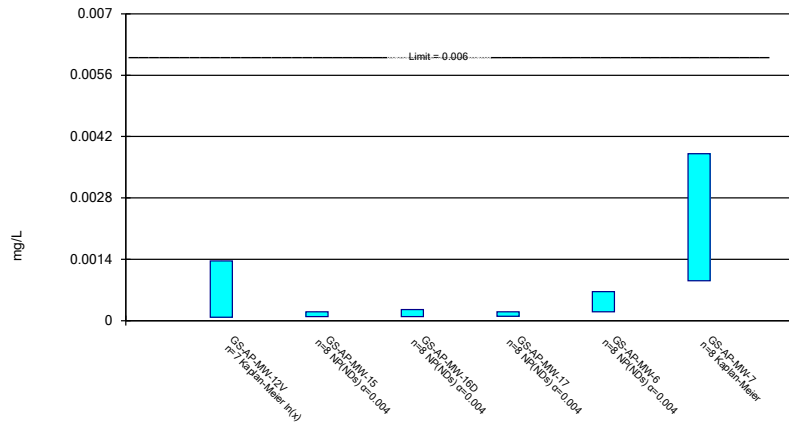
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Constituent: Chromium Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

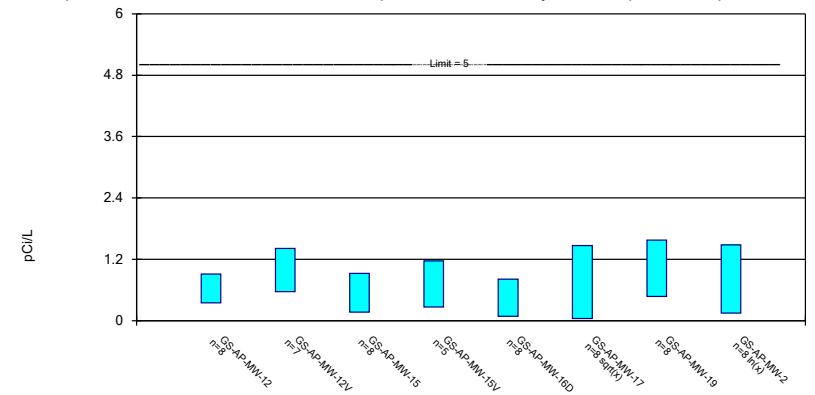
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Constituent: Cobalt Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric Confidence Interval

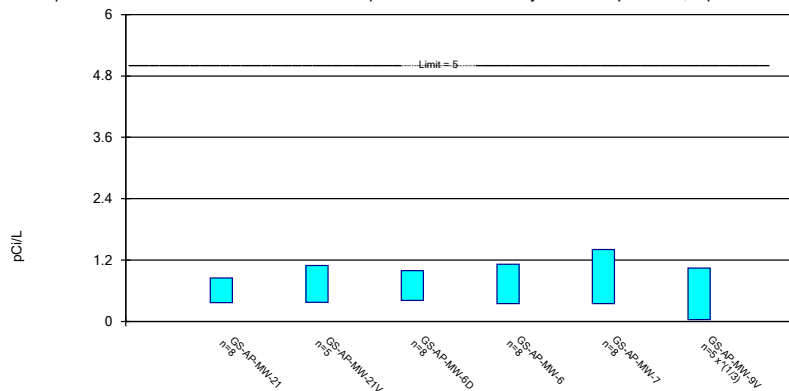
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confiden
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric Confidence Interval

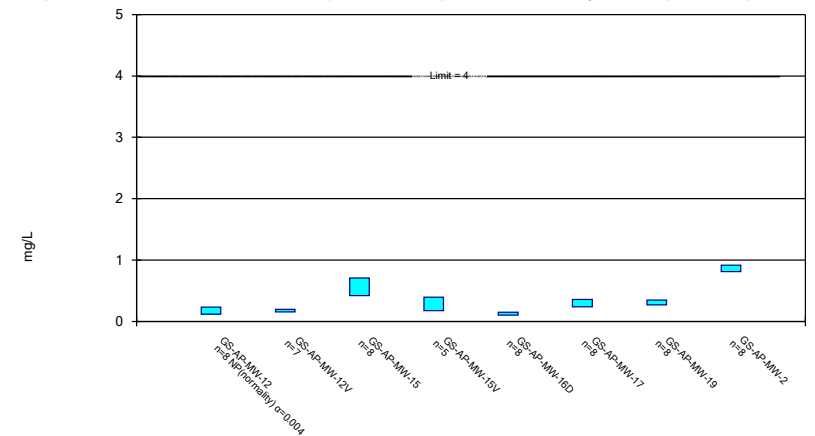
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Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confiden
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

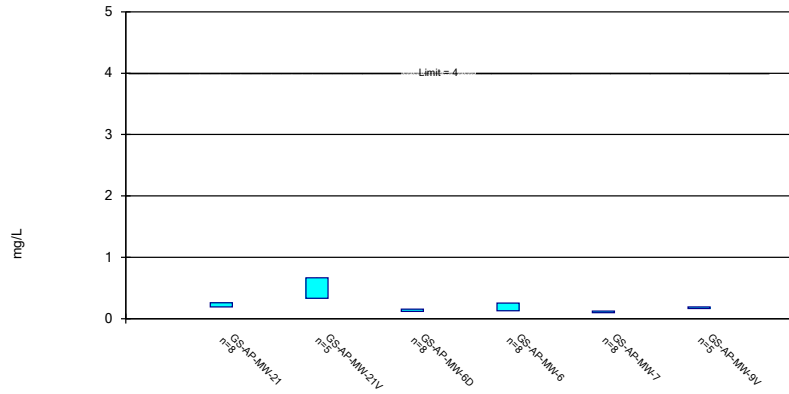
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Constituent: Fluoride Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric Confidence Interval

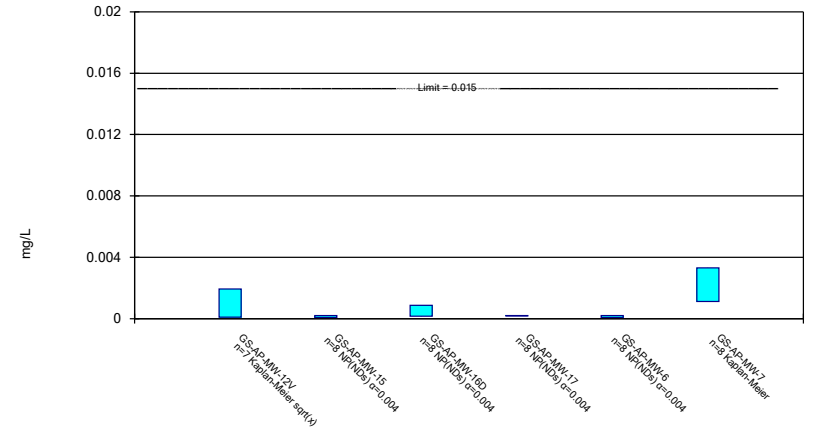
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Constituent: Fluoride Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

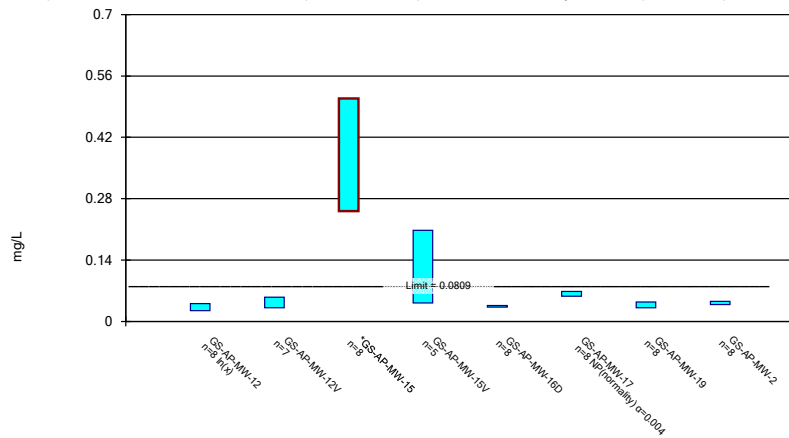
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

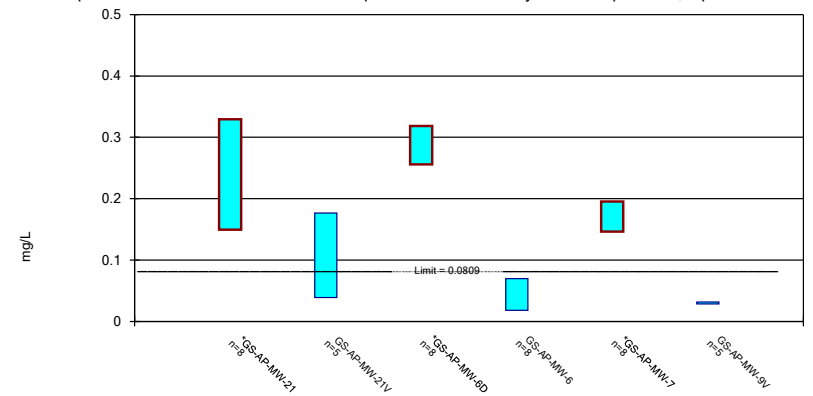
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric Confidence Interval

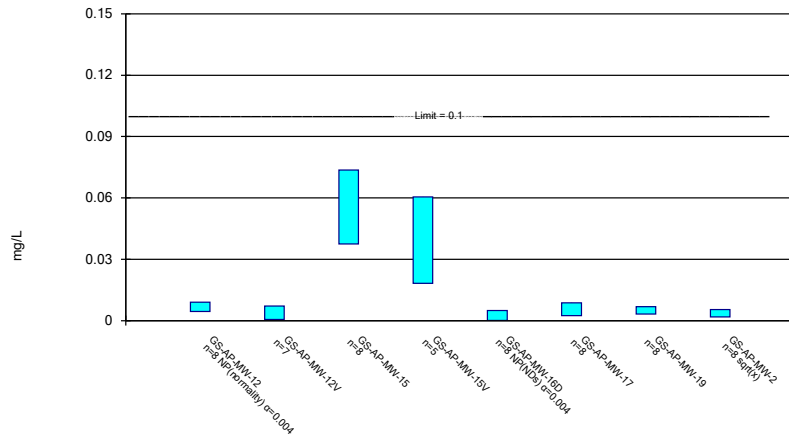
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

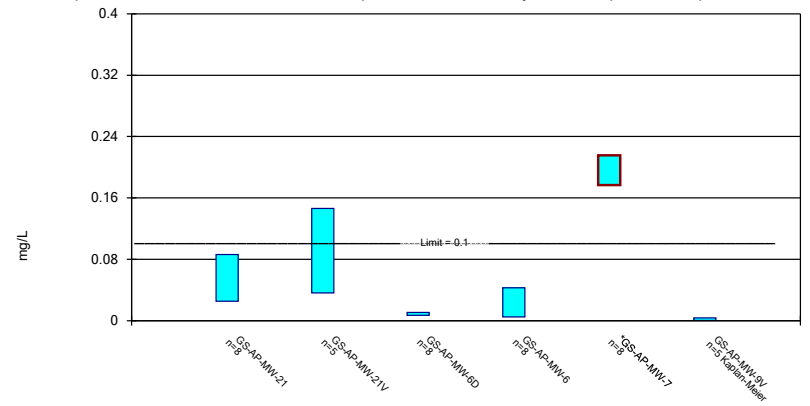
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric Confidence Interval

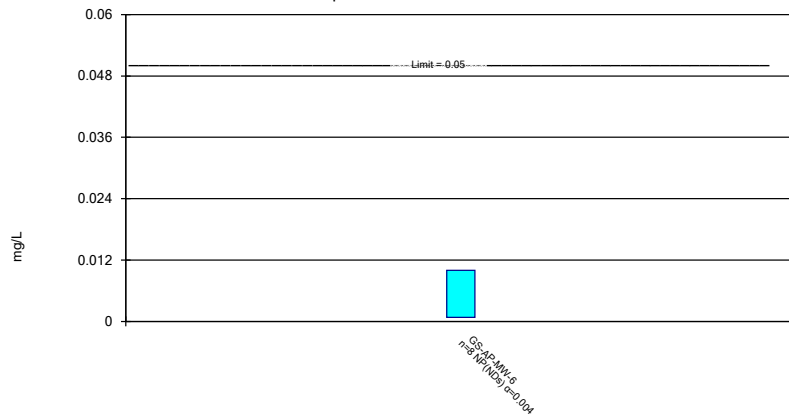
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 5/16/2022 4:48 PM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-21V | GS-AP-MW-6D | GS-AP-MW-6 | GS-AP-MW-7 |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| 10/15/2018 | | | <0.00102 | | | <0.00102 | <0.00102 | <0.00102 |
| 10/16/2018 | <0.00102 | | | | | | | |
| 2/21/2019 | | 0.000841 (J) | | | | | | |
| 4/16/2019 | <0.00102 | | | | | 0.000828 (J) | <0.00102 | |
| 4/17/2019 | | | <0.00102 | | | | | |
| 4/23/2019 | | | | | | | | 0.00105 (J) |
| 9/23/2019 | | | | | | <0.00102 | <0.00102 | |
| 9/24/2019 | | | <0.00102 | | | | | <0.00102 |
| 9/25/2019 | <0.00102 | 0.0025 (J) | | | | | | |
| 3/17/2020 | | | | | | <0.00102 | <0.00102 | <0.00102 |
| 3/18/2020 | 0.0022 (J) | | 0.000976 (J) | 0.0028 (J) | | | | |
| 3/23/2020 | | | | | 0.000831 (J) | | | |
| 3/24/2020 | | 0.00128 (J) | | | | | | |
| 9/16/2020 | | | | | | | 0.000948 (J) | <0.00102 |
| 9/17/2020 | | | | | | <0.00102 | | |
| 9/21/2020 | | | | 0.0028 (J) | | | | |
| 9/23/2020 | 0.00202 (J) | 0.00152 (J) | 0.000844 (J) | | <0.00102 | | | |
| 2/1/2021 | 0.000518 (J) | 0.000861 (J) | | | | | | |
| 2/2/2021 | | | | | | | | <0.00102 |
| 2/3/2021 | | | | | | <0.00102 | 0.00055 (J) | |
| 2/9/2021 | | | 0.00075 (J) | 0.00237 | 0.000661 (J) | | | |
| 7/27/2021 | | | | | | <0.00102 | 0.00123 | |
| 8/3/2021 | | | 0.00065 (J) | 0.00097 (J) | | | | |
| 8/9/2021 | 0.00179 | 0.00089 (J) | | | | | | <0.00102 |
| 8/11/2021 | | | | | <0.00102 | | | |
| 2/8/2022 | | | | | <0.00102 | | | <0.00102 |
| 2/14/2022 | | | | | | <0.00102 | 0.00071 (J) | |
| 2/16/2022 | | | 0.00078 (J) | 0.00113 | | | | |
| 2/23/2022 | | 0.00055 (J) | | | | | | |
| 2/28/2022 | 0.00415 | | | | | | | |
| Mean | 0.001717 | 0.001206 | 0.0008825 | 0.002014 | 0.0009104 | 0.000996 | 0.0009397 | 0.001024 |
| Std. Dev. | 0.001143 | 0.0006533 | 0.0001459 | 0.0008991 | 0.0001617 | 6.788E-05 | 0.0002121 | 1.061E-05 |
| Upper Lim. | 0.003069 | 0.001982 | 0.0009145 | 0.003521 | 0.00102 | 0.00102 | 0.001131 | 0.00105 |
| Lower Lim. | 0.000862 | 0.00043 | 0.0006855 | 0.0005073 | 0.000661 | 0.000828 | 0.0005876 | 0.00102 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-21 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|
| 10/15/2018 | | | 0.0123 | | | | | |
| 10/16/2018 | 0.0203 | | | | | | 0.00216 (J) | <0.005 |
| 10/17/2018 | | | | | <0.005 | | | |
| 2/21/2019 | | <0.005 | | | | | | |
| 4/16/2019 | 0.014 | | | | | | | |
| 4/17/2019 | | | 0.00633 | | <0.005 | 0.00343 (J) | 0.00302 (J) | <0.005 |
| 9/23/2019 | | | | | | 0.00631 | | |
| 9/24/2019 | | | 0.011 | | <0.005 | | 0.00289 (J) | <0.005 |
| 9/25/2019 | 0.0135 | 0.00129 (J) | | | | | | |
| 3/16/2020 | | | | | | 0.00268 (J) | | |
| 3/18/2020 | 0.00693 | | 0.0217 | 0.011 | | | | <0.005 |
| 3/24/2020 | | 0.00266 (J) | | | <0.005 | | 0.00313 (J) | |
| 5/12/2020 | | | | | | 0.00326 (J) | | |
| 9/21/2020 | | | | 0.0167 | | 0.0055 | | |
| 9/22/2020 | | | | | <0.005 | | 0.00313 (J) | |
| 9/23/2020 | 0.00616 | 0.00176 (J) | 0.0165 | | | | | <0.005 |
| 2/1/2021 | 0.00747 | 0.00154 | | | | | | |
| 2/2/2021 | | | | | | 0.00478 | | |
| 2/8/2021 | | | | | | | 0.00178 | 0.000624 |
| 2/9/2021 | | | 0.0145 | 0.0165 | | | | |
| 2/10/2021 | | | | | 0.000491 | | | |
| 8/3/2021 | | | 0.0139 | 0.0105 | | 0.00086 | | |
| 8/4/2021 | | | | | | | | 0.00054 |
| 8/9/2021 | 0.00308 | 0.00112 | | | 0.0001 (J) | | | |
| 8/10/2021 | | | | | | | 0.00133 | |
| 2/8/2022 | | | | | | | | 0.00046 |
| 2/14/2022 | | | | | | 0.00112 | | |
| 2/15/2022 | | | | | 0.00012 (J) | | | |
| 2/16/2022 | | | 0.00592 | 0.0081 | | | | |
| 2/22/2022 | | | | | | | 0.00098 | |
| 2/23/2022 | | 0.00102 | | | | | | |
| 2/28/2022 | 0.00343 | | | | | | | |
| Mean | 0.009359 | 0.001699 | 0.01277 | 0.01256 | 0.001651 | 0.003493 | 0.002303 | 0.001765 |
| Std. Dev. | 0.006008 | 0.0006529 | 0.005205 | 0.003848 | 0.001177 | 0.00196 | 0.0008633 | 0.001015 |
| Upper Lim. | 0.01573 | 0.002474 | 0.01829 | 0.01901 | 0.0025 | 0.00557 | 0.003218 | 0.0025 |
| Lower Lim. | 0.002991 | 0.000923 | 0.007251 | 0.006112 | 0.0001 | 0.001415 | 0.001387 | 0.00046 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21V | GS-AP-MW-6D | GS-AP-MW-6 | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|--------------|-------------|------------|------------|--------------|
| 10/15/2018 | | 0.0758 | 0.00832 | 0.217 | |
| 4/16/2019 | | 0.088 | 0.0164 | | |
| 4/23/2019 | | | | 0.207 | |
| 9/23/2019 | | 0.0876 | 0.0105 | | |
| 9/24/2019 | | | | 0.233 | |
| 3/17/2020 | | 0.105 | 0.00778 | 0.285 | |
| 3/23/2020 | 0.0159 | | | | <0.005 |
| 9/16/2020 | | | 0.00611 | 0.282 | |
| 9/17/2020 | | 0.0931 | | | |
| 9/22/2020 | | | | | <0.005 |
| 9/23/2020 | 0.01 | | | | |
| 2/2/2021 | | | | 0.275 | 0.000101 (J) |
| 2/3/2021 | | 0.104 | 0.0071 | | |
| 2/9/2021 | 0.0063 | | | | |
| 7/27/2021 | | 0.107 | 0.00634 | | |
| 8/9/2021 | | | | 0.282 | |
| 8/10/2021 | | | | | 0.00032 |
| 8/11/2021 | 0.00161 | | | | |
| 2/8/2022 | 0.00551 | | | 0.281 | |
| 2/14/2022 | | 0.12 | 0.0106 | | |
| 2/21/2022 | | | | | 0.00021 |
| Mean | 0.007864 | 0.09756 | 0.009144 | 0.2578 | 0.001126 |
| Std. Dev. | 0.005391 | 0.01401 | 0.003389 | 0.03296 | 0.001256 |
| Upper Lim. | 0.0169 | 0.1124 | 0.01251 | 0.285 | 0.0003914 |
| Lower Lim. | -0.001169 | 0.08272 | 0.005911 | 0.207 | 8.019E-05 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|------------|
| 10/15/2018 | | | 0.133 | | | | | |
| 10/16/2018 | 0.159 | | | | | | 0.35 | |
| 10/17/2018 | | | | | 0.331 | | | |
| 2/21/2019 | | 1.35 | | | | | | |
| 4/16/2019 | 0.161 | | | | | | | |
| 4/17/2019 | | | 0.264 | | 0.322 | 0.0946 | 0.316 | 0.0576 |
| 9/23/2019 | | | | | | 0.135 | | |
| 9/24/2019 | | | 0.0913 | | 0.342 | | 0.356 | |
| 9/25/2019 | 0.202 | 1.06 | | | | | | 0.065 |
| 3/16/2020 | | | | | | 0.0883 | | |
| 3/18/2020 | 0.195 | | 0.14 | 0.155 | | | | |
| 3/24/2020 | | 1.43 | | | 0.323 | | 0.324 | |
| 3/25/2020 | | | | | | | | 0.0602 |
| 5/12/2020 | | | | | | 0.0941 | | |
| 5/13/2020 | | | | | | | | 0.0528 |
| 9/21/2020 | | | | 0.18 | | 0.128 | | |
| 9/22/2020 | | | | | 0.342 | | 0.337 | 0.0563 |
| 9/23/2020 | 0.193 | 1.27 | 0.119 | | | | | |
| 2/1/2021 | 0.201 | 1.6 | | | | | | 0.0578 |
| 2/2/2021 | | | | | | 0.107 | | |
| 2/8/2021 | | | | | | | 0.36 | |
| 2/9/2021 | | | 0.132 | 0.2 | | | | |
| 2/10/2021 | | | | | 0.356 | | | |
| 8/3/2021 | | | 0.129 | 0.164 | | 0.0889 | | |
| 8/4/2021 | | | | | | | | 0.0702 |
| 8/9/2021 | 0.194 | 1.07 | | | 0.334 | | | |
| 8/10/2021 | | | | | | | 0.343 | |
| 2/14/2022 | | | | | | 0.0945 | | |
| 2/15/2022 | | | | | 0.322 | | | |
| 2/16/2022 | | | 0.271 | 0.2 | | | | |
| 2/22/2022 | | | | | | | 0.334 | 0.0501 |
| 2/23/2022 | | 1.34 | | | | | | |
| 2/28/2022 | 0.173 | | | | | | | |
| Mean | 0.1848 | 1.303 | 0.1599 | 0.1798 | 0.334 | 0.1038 | 0.34 | 0.05875 |
| Std. Dev. | 0.01767 | 0.1925 | 0.06805 | 0.0205 | 0.01213 | 0.01811 | 0.01532 | 0.006444 |
| Upper Lim. | 0.2016 | 1.532 | 0.271 | 0.2141 | 0.3469 | 0.135 | 0.3562 | 0.06558 |
| Lower Lim. | 0.1671 | 1.074 | 0.0913 | 0.1455 | 0.3211 | 0.0883 | 0.3238 | 0.05192 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-6D | GS-AP-MW-6 | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|-------------|------------|------------|-------------|
| 10/15/2018 | | | 0.896 | 0.118 | 0.049 | |
| 10/16/2018 | 0.0909 | | | | | |
| 4/16/2019 | | | 0.879 | 0.124 | | |
| 4/17/2019 | 0.0914 | | | | | |
| 4/23/2019 | | | | | 0.113 | |
| 9/23/2019 | | | 0.903 | 0.124 | | |
| 9/24/2019 | 0.114 | | | | 0.0834 | |
| 3/17/2020 | | | 0.638 | 0.0725 | 0.174 | |
| 3/18/2020 | 0.105 | | | | | |
| 3/23/2020 | | 0.0574 | | | | 0.215 |
| 9/16/2020 | | | | 0.0682 | 0.124 | |
| 9/17/2020 | | | 0.378 | | | |
| 9/22/2020 | | | | | | 0.187 |
| 9/23/2020 | 0.157 | 0.0438 | | | | |
| 2/2/2021 | | | | | 0.115 | 0.17 |
| 2/3/2021 | | | 0.443 | 0.0779 | | |
| 2/8/2021 | 0.151 | | | | | |
| 2/9/2021 | | 0.028 | | | | |
| 7/27/2021 | | | 0.488 | 0.0876 | | |
| 8/4/2021 | 0.148 | | | | | |
| 8/9/2021 | | | | | 0.0891 | |
| 8/10/2021 | | | | | | 0.165 |
| 8/11/2021 | | 0.0535 | | | | |
| 2/8/2022 | 0.143 | 0.0631 | | | 0.0747 | |
| 2/14/2022 | | | 0.599 | 0.097 | | |
| 2/21/2022 | | | | | | 0.161 |
| Mean | 0.125 | 0.04916 | 0.653 | 0.09615 | 0.1028 | 0.1796 |
| Std. Dev. | 0.02769 | 0.01376 | 0.2147 | 0.02323 | 0.03783 | 0.02213 |
| Upper Lim. | 0.1544 | 0.07222 | 0.8806 | 0.1208 | 0.1429 | 0.2167 |
| Lower Lim. | 0.09569 | 0.0261 | 0.4254 | 0.07153 | 0.06267 | 0.1425 |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-16D | GS-AP-MW-2 | GS-AP-MW-6 |
|------------|--------------|------------|--------------|
| 10/15/2018 | | | 0.000794 (J) |
| 10/17/2018 | 0.00109 (J) | | |
| 4/16/2019 | | | <0.00102 |
| 4/17/2019 | <0.00102 | <0.00102 | |
| 9/23/2019 | | | <0.00102 |
| 9/24/2019 | <0.00102 | | |
| 9/25/2019 | | <0.00102 | |
| 3/17/2020 | | | <0.00102 |
| 3/24/2020 | <0.00102 | | |
| 3/25/2020 | | <0.00102 | |
| 5/13/2020 | | <0.00102 | |
| 9/16/2020 | | | <0.00102 |
| 9/22/2020 | <0.00102 | <0.00102 | |
| 2/1/2021 | | <0.00102 | |
| 2/3/2021 | | | <0.00102 |
| 2/10/2021 | <0.00102 | | |
| 7/27/2021 | | | <0.00102 |
| 8/4/2021 | | <0.00102 | |
| 8/9/2021 | <0.00102 | | |
| 2/14/2022 | | | <0.00102 |
| 2/15/2022 | <0.00102 | | |
| 2/22/2022 | | <0.00102 | |
| Mean | 0.001029 | 0.00102 | 0.0009917 |
| Std. Dev. | 2.475E-05 | 0 | 7.99E-05 |
| Upper Lim. | 0.00109 | 0.00102 | 0.00102 |
| Lower Lim. | 0.00102 | 0.00102 | 0.000794 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|
| 10/15/2018 | | | <0.00102 | | | | | |
| 10/16/2018 | <0.00102 | | | | | | <0.00102 | |
| 10/17/2018 | | | | | <0.00102 | | | |
| 2/21/2019 | | <0.00102 | | | | | | |
| 4/16/2019 | <0.00102 | | | | | | | |
| 4/17/2019 | | | <0.00102 | | <0.00102 | <0.00102 | <0.00102 | <0.00102 |
| 9/23/2019 | | | | | | <0.00102 | | |
| 9/24/2019 | | | <0.00102 | | <0.00102 | | <0.00102 | |
| 9/25/2019 | <0.00102 | 0.00202 (J) | | | | | | <0.00102 |
| 3/16/2020 | | | | | | <0.00102 | | |
| 3/18/2020 | <0.00102 | | <0.00102 | 0.00716 (J) | | | | |
| 3/24/2020 | | 0.00774 (J) | | | <0.00102 | | <0.00102 | |
| 3/25/2020 | | | | | | | | <0.00102 |
| 5/12/2020 | | | | | | <0.00102 | | |
| 5/13/2020 | | | | | | | | <0.00102 |
| 9/21/2020 | | | | 0.00239 (J) | | <0.00102 | | |
| 9/22/2020 | | | | | <0.00102 | | <0.00102 | <0.00102 |
| 9/23/2020 | <0.00102 | 0.00362 (J) | <0.00102 | | | | | |
| 2/1/2021 | <0.00102 | 0.00311 | | | | | | 0.000505 (J) |
| 2/2/2021 | | | | | | 0.00255 | | |
| 2/8/2021 | | | | | | | 0.000258 (J) | |
| 2/9/2021 | | | 0.00072 (J) | 0.00142 | | | | |
| 2/10/2021 | | | | | 0.00107 | | | |
| 8/3/2021 | | | 0.0008 (J) | 0.00051 (J) | | 0.00041 (J) | | |
| 8/4/2021 | | | | | | | | 0.00085 (J) |
| 8/9/2021 | 0.00031 (J) | 0.00146 | | | 0.00068 (J) | | | |
| 8/10/2021 | | | | | | | 0.00032 (J) | |
| 2/14/2022 | | | | | | 0.00034 (J) | | |
| 2/15/2022 | | | | | 0.00025 (J) | | | |
| 2/16/2022 | | | 0.00048 (J) | 0.00062 (J) | | | | |
| 2/22/2022 | | | | | | | <0.00102 | 0.00044 (J) |
| 2/23/2022 | | 0.00061 (J) | | | | | | |
| 2/28/2022 | <0.00102 | | | | | | | |
| Mean | 0.0009312 | 0.002797 | 0.0008875 | 0.00242 | 0.0008875 | 0.00105 | 0.0008372 | 0.0008619 |
| Std. Dev. | 0.000251 | 0.002434 | 0.0002034 | 0.002755 | 0.0002855 | 0.0006728 | 0.0003388 | 0.000248 |
| Upper Lim. | 0.00102 | 0.005688 | 0.00102 | 0.007384 | 0.00107 | 0.00255 | 0.00102 | 0.00102 |
| Lower Lim. | 0.00031 | -9.377E-05 | 0.00048 | 2.359E-06 | 0.00025 | 0.00034 | 0.000258 | 0.00044 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-6D | GS-AP-MW-6 | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|--------------|--------------|--------------|--------------|-------------|--------------|
| 10/15/2018 | | | <0.00102 | <0.00102 | <0.00102 | |
| 10/16/2018 | <0.00102 | | | | | |
| 4/16/2019 | | | <0.00102 | <0.00102 | | |
| 4/17/2019 | <0.00102 | | | | | |
| 4/23/2019 | | | | | 0.00435 (J) | |
| 9/23/2019 | | | <0.00102 | <0.00102 | | |
| 9/24/2019 | <0.00102 | | | | <0.00102 | |
| 3/17/2020 | | | <0.00102 | <0.00102 | 0.0076 (J) | |
| 3/18/2020 | <0.00102 | | | | | |
| 3/23/2020 | | <0.00102 | | | | <0.00102 |
| 9/16/2020 | | | | <0.00102 | 0.00482 (J) | |
| 9/17/2020 | | | <0.00102 | | | |
| 9/22/2020 | | | | | | <0.00102 |
| 9/23/2020 | <0.00102 | <0.00102 | | | | |
| 2/2/2021 | | | | | 0.00435 | 0.000228 (J) |
| 2/3/2021 | | | 0.000264 (J) | 0.000268 (J) | | |
| 2/8/2021 | 0.000705 (J) | | | | | |
| 2/9/2021 | | 0.000218 (J) | | | | |
| 7/27/2021 | | | 0.00024 (J) | 0.00024 (J) | | |
| 8/4/2021 | 0.00042 (J) | | | | | |
| 8/9/2021 | | | | | 0.00234 | |
| 8/10/2021 | | | | | | 0.00029 (J) |
| 8/11/2021 | | 0.00134 | | | | |
| 2/8/2022 | 0.0004 (J) | 0.00041 (J) | | | 0.00103 | |
| 2/14/2022 | | | 0.00024 (J) | 0.00026 (J) | | |
| 2/21/2022 | | | | | | <0.00102 |
| Mean | 0.0008281 | 0.0008016 | 0.0007305 | 0.0007335 | 0.003316 | 0.0007156 |
| Std. Dev. | 0.0002801 | 0.0004688 | 0.0003996 | 0.0003955 | 0.002375 | 0.0004174 |
| Upper Lim. | 0.00102 | 0.001222 | 0.00102 | 0.00102 | 0.005355 | 0.00102 |
| Lower Lim. | 0.0004 | -0.0001834 | 0.00024 | 0.00024 | 0.0005285 | 0.000228 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-6 | GS-AP-MW-7 |
|------------|--------------|-------------|--------------|--------------|------------|-------------|
| 10/15/2018 | | <0.0002 | | | <0.0002 | <0.0002 |
| 10/17/2018 | | | <0.0002 | | | |
| 2/21/2019 | <0.0002 | | | | | |
| 4/16/2019 | | | | | <0.0002 | |
| 4/17/2019 | | <0.0002 | <0.0002 | <0.0002 | | |
| 4/23/2019 | | | | | | 0.00231 (J) |
| 9/23/2019 | | | | <0.0002 | <0.0002 | |
| 9/24/2019 | | <0.0002 | <0.0002 | | | <0.0002 |
| 9/25/2019 | <0.0002 | | | | | |
| 3/16/2020 | | | | <0.0002 | | |
| 3/17/2020 | | | | | <0.0002 | 0.00476 (J) |
| 3/18/2020 | | <0.0002 | | | | |
| 3/24/2020 | 0.00277 (J) | | <0.0002 | | | |
| 5/12/2020 | | | | <0.0002 | | |
| 9/16/2020 | | | | | <0.0002 | 0.00301 (J) |
| 9/21/2020 | | | | <0.0002 | | |
| 9/22/2020 | | | <0.0002 | | | |
| 9/23/2020 | <0.0002 | <0.0002 | | | | |
| 2/1/2021 | 0.00129 | | | | | |
| 2/2/2021 | | | | 0.000102 (J) | | 0.00248 |
| 2/3/2021 | | | | | 0.000663 | |
| 2/9/2021 | | <0.0002 | | | | |
| 2/10/2021 | | | 0.000252 | | | |
| 7/27/2021 | | | | | 0.00064 | |
| 8/3/2021 | | 9E-05 (J) | | <0.0002 | | |
| 8/9/2021 | 0.00043 | | 9E-05 (J) | | | 0.0011 |
| 2/8/2022 | | | | | | 0.00051 |
| 2/14/2022 | | | | <0.0002 | 0.00065 | |
| 2/15/2022 | | | <0.0002 | | | |
| 2/16/2022 | | <0.0002 | | | | |
| 2/23/2022 | 0.00013 (J) | | | | | |
| Mean | 0.0007457 | 0.0001862 | 0.0001927 | 0.0001877 | 0.0003691 | 0.001821 |
| Std. Dev. | 0.0009803 | 3.889E-05 | 4.533E-05 | 3.465E-05 | 0.0002335 | 0.001613 |
| Upper Lim. | 0.001363 | 0.0002 | 0.000252 | 0.0002 | 0.000663 | 0.00381 |
| Lower Lim. | 8.055E-05 | 9E-05 | 9E-05 | 0.000102 | 0.0002 | 0.0009129 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|------------|
| 10/15/2018 | | | 0.708 | | | | | |
| 10/16/2018 | 0.421 (U) | | | | | | 0.856 | |
| 10/17/2018 | | | | | 0.368 (U) | | | |
| 2/21/2019 | | 0.296 (U) | | | | | | |
| 4/16/2019 | 0.184 (U) | | | | | | | |
| 4/17/2019 | | | -0.11 (U) | | 0.121 (U) | 0.00935 (U) | 0.507 (U) | 0.0905 (U) |
| 9/23/2019 | | | | | | 0.983 | | |
| 9/24/2019 | | | 0.951 | | -0.033 (U) | | 0.664 | |
| 9/25/2019 | 0.442 (U) | 1.03 | | | | | | 0.537 (U) |
| 3/16/2020 | | | | | | 0.185 (U) | | |
| 3/18/2020 | 0.605 | | 0.939 | 0.566 (U) | | | | |
| 3/24/2020 | | 0.877 (U) | | | 0.636 | | 1.07 | |
| 3/25/2020 | | | | | | | | 4 |
| 5/12/2020 | | | | | | 0.0339 (U) | | |
| 5/13/2020 | | | | | | | | 0.289 (U) |
| 9/21/2020 | | | | 0.494 (U) | | 0.651 (U) | | |
| 9/22/2020 | | | | | 0.59 (U) | | 2.09 | 0.712 |
| 9/23/2020 | 0.811 (U) | 1.38 | 0.547 (U) | | | | | |
| 2/1/2021 | 0.946 (U) | 0.944 (U) | | | | | | 0.518 (U) |
| 2/2/2021 | | | | | | 2.53 | | |
| 2/8/2021 | | | | | | | 0.947 (U) | |
| 2/9/2021 | | | 0.442 (U) | 0.55 (U) | | | | |
| 2/10/2021 | | | | | 0.285 (U) | | | |
| 8/3/2021 | | | 0.65 (U) | 1.13 (U) | | 0.667 (U) | | |
| 8/4/2021 | | | | | | | | 0.502 (U) |
| 8/9/2021 | 0.907 (U) | 1.0895 (UD) | | | 1.07 (U) | | | |
| 8/10/2021 | | | | | | | 1.42 (U) | |
| 2/14/2022 | | | | | | 0.523 (U) | | |
| 2/15/2022 | | | | | 0.557 (U) | | | |
| 2/16/2022 | | | 0.234 (U) | 0.841 (U) | | | | |
| 2/22/2022 | | | | | | | 0.639 (U) | 0.21 (U) |
| 2/23/2022 | | 1.3 | | | | | | |
| 2/28/2022 | 0.725 (U) | | | | | | | |
| Mean | 0.6301 | 0.9881 | 0.5451 | 0.7162 | 0.4493 | 0.6978 | 1.024 | 0.8573 |
| Std. Dev. | 0.2664 | 0.355 | 0.3574 | 0.2676 | 0.3434 | 0.815 | 0.5175 | 1.286 |
| Upper Lim. | 0.9125 | 1.41 | 0.9239 | 1.165 | 0.8132 | 1.471 | 1.573 | 1.484 |
| Lower Lim. | 0.3477 | 0.5664 | 0.1663 | 0.2678 | 0.08525 | 0.03889 | 0.4756 | 0.1457 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-6D | GS-AP-MW-6 | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|-------------|------------|------------|-------------|
| 10/15/2018 | | | 0.656 | 0.792 | 0.309 (U) | |
| 10/16/2018 | 0.586 | | | | | |
| 4/16/2019 | | | 0.528 | 1.11 | | |
| 4/17/2019 | 0.47 (U) | | | | | |
| 4/23/2019 | | | | | 0.894 | |
| 9/23/2019 | | | 0.677 | 1.06 | | |
| 9/24/2019 | 1.08 | | | | 0.618 (U) | |
| 3/17/2020 | | | 0.629 | 0.351 (U) | 1.2 | |
| 3/18/2020 | 0.732 | | | | | |
| 3/23/2020 | | 0.982 | | | | 0.156 (U) |
| 9/16/2020 | | | | 1.05 | 1.74 | |
| 9/17/2020 | | | 0.32 (U) | | | |
| 9/22/2020 | | | | | | 0.536 (U) |
| 9/23/2020 | 0.468 (U) | 0.563 (U) | | | | |
| 2/2/2021 | | | | | 0.373 (U) | 0.154 (U) |
| 2/3/2021 | | | 0.647 (U) | 0.489 (U) | | |
| 2/8/2021 | 0.667 (U) | | | | | |
| 2/9/2021 | | 0.867 (U) | | | | |
| 7/27/2021 | | | 0.919 (U) | 0.87 (U) | | |
| 8/4/2021 | 0.337 (U) | | | | | |
| 8/9/2021 | | | | | 1.28 (D) | |
| 8/10/2021 | | | | | | 0.895 (U) |
| 8/11/2021 | | 0.782 (U) | | | | |
| 2/8/2022 | 0.529 (U) | 0.467 (U) | | | 0.587 (UD) | |
| 2/14/2022 | | | 1.24 | 0.14 (U) | | |
| 2/21/2022 | | | | | | 0.134 (U) |
| Mean | 0.6086 | 0.7322 | 0.702 | 0.7328 | 0.8751 | 0.375 |
| Std. Dev. | 0.2269 | 0.2133 | 0.2736 | 0.3643 | 0.4985 | 0.3359 |
| Upper Lim. | 0.8491 | 1.09 | 0.992 | 1.119 | 1.404 | 1.045 |
| Lower Lim. | 0.3681 | 0.3748 | 0.412 | 0.3466 | 0.3467 | 0.036 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|------------|
| 10/15/2018 | | | 0.77 | | | | | |
| 10/16/2018 | 0.23 | | | | | | 0.37 | |
| 10/17/2018 | | | | | 0.13 | | | |
| 2/21/2019 | | 0.205 | | | | | | |
| 4/16/2019 | 0.188 | | | | | | | |
| 4/17/2019 | | | 0.463 | | 0.171 | 0.354 | 0.27 | 0.868 |
| 9/23/2019 | | | | | | 0.351 | | |
| 9/24/2019 | | | 0.628 | | 0.124 | | 0.307 | |
| 9/25/2019 | 0.168 | 0.185 | | | | | | 0.86 |
| 3/16/2020 | | | | | | 0.261 | | |
| 3/18/2020 | 0.122 | | 0.647 | 0.243 | | | | |
| 3/24/2020 | | 0.155 | | | 0.109 | | 0.327 | |
| 3/25/2020 | | | | | | | | 0.855 |
| 5/12/2020 | | | | | | 0.263 | | |
| 5/13/2020 | | | | | | | | 0.777 |
| 9/21/2020 | | | | 0.372 | | 0.371 | | |
| 9/22/2020 | | | | | 0.123 | | 0.339 | 0.921 |
| 9/23/2020 | 0.12 | 0.176 | 0.452 | | | | | |
| 2/1/2021 | 0.126 | 0.169 | | | | | | 0.865 |
| 2/2/2021 | | | | | | 0.276 | | |
| 2/8/2021 | | | | | | | 0.319 | |
| 2/9/2021 | | | 0.591 | 0.329 | | | | |
| 2/10/2021 | | | | | 0.103 | | | |
| 8/3/2021 | | | 0.615 | 0.278 | | 0.3 | | |
| 8/4/2021 | | | | | | | | 0.932 |
| 8/9/2021 | 0.139 | 0.187 | | | 0.131 | | | |
| 8/10/2021 | | | | | | | 0.283 | |
| 2/14/2022 | | | | | | 0.206 | | |
| 2/15/2022 | | | | | 0.114 | | | |
| 2/16/2022 | | | 0.349 | 0.208 | | | | |
| 2/22/2022 | | | | | | | 0.259 | 0.819 |
| 2/23/2022 | | 0.153 | | | | | | |
| 2/28/2022 | 0.12 | | | | | | | |
| Mean | 0.1516 | 0.1757 | 0.5644 | 0.286 | 0.1256 | 0.2978 | 0.3093 | 0.8621 |
| Std. Dev. | 0.0404 | 0.01854 | 0.134 | 0.06565 | 0.02084 | 0.0571 | 0.03731 | 0.05008 |
| Upper Lim. | 0.23 | 0.1977 | 0.7064 | 0.396 | 0.1477 | 0.3583 | 0.3488 | 0.9152 |
| Lower Lim. | 0.12 | 0.1537 | 0.4223 | 0.176 | 0.1035 | 0.2372 | 0.2697 | 0.809 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-6D | GS-AP-MW-6 | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|-------------|------------|-------------|-------------|
| 10/15/2018 | | | 0.16 | 0.14 | 0.11 | |
| 10/16/2018 | 0.25 | | | | | |
| 4/16/2019 | | | 0.156 | 0.147 | | |
| 4/17/2019 | 0.272 | | | | | |
| 4/23/2019 | | | | | 0.111 | |
| 9/23/2019 | | | 0.132 | 0.142 | | |
| 9/24/2019 | 0.209 | | | | 0.106 | |
| 3/17/2020 | | | 0.132 | 0.231 | 0.107 | |
| 3/18/2020 | 0.234 | | | | | |
| 3/23/2020 | | 0.494 | | | | 0.187 |
| 9/16/2020 | | | | 0.308 | 0.126 | |
| 9/17/2020 | | | 0.133 | | | |
| 9/22/2020 | | | | | | 0.174 |
| 9/23/2020 | 0.208 | 0.641 | | | | |
| 2/2/2021 | | | | | 0.124 | 0.183 |
| 2/3/2021 | | | 0.135 | 0.195 | | |
| 2/8/2021 | 0.203 | | | | | |
| 2/9/2021 | | 0.546 | | | | |
| 7/27/2021 | | | 0.127 | 0.2 | | |
| 8/4/2021 | 0.24 | | | | | |
| 8/9/2021 | | | | | 0.11 | |
| 8/10/2021 | | | | | | 0.166 |
| 8/11/2021 | | 0.41 | | | | |
| 2/8/2022 | 0.175 | 0.398 | | | 0.0872 (JD) | |
| 2/14/2022 | | | 0.108 | 0.164 | | |
| 2/21/2022 | | | | | | 0.177 |
| Mean | 0.2239 | 0.4978 | 0.1354 | 0.1909 | 0.1102 | 0.1774 |
| Std. Dev. | 0.03084 | 0.1006 | 0.01639 | 0.05739 | 0.01194 | 0.008142 |
| Upper Lim. | 0.2566 | 0.6664 | 0.1527 | 0.2517 | 0.1228 | 0.191 |
| Lower Lim. | 0.1912 | 0.3292 | 0.118 | 0.13 | 0.0975 | 0.1638 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-6 | GS-AP-MW-7 |
|------------|--------------|--------------|--------------|--------------|------------|-------------|
| 10/15/2018 | | <0.0002 | | | <0.0002 | <0.0002 |
| 10/17/2018 | | | <0.0002 | | | |
| 2/21/2019 | <0.0002 | | | | | |
| 4/16/2019 | | | | | <0.0002 | |
| 4/17/2019 | | <0.0002 | <0.0002 | <0.0002 | | |
| 4/23/2019 | | | | | | 0.00207 (J) |
| 9/23/2019 | | | | <0.0002 | <0.0002 | |
| 9/24/2019 | | <0.0002 | <0.0002 | | | <0.0002 |
| 9/25/2019 | <0.0002 | | | | | |
| 3/16/2020 | | | | <0.0002 | | |
| 3/17/2020 | | | | | <0.0002 | 0.00386 (J) |
| 3/18/2020 | | <0.0002 | | | | |
| 3/24/2020 | 0.00279 (J) | | <0.0002 | | | |
| 5/12/2020 | | | | <0.0002 | | |
| 9/16/2020 | | | | | <0.0002 | 0.00295 (J) |
| 9/21/2020 | | | | <0.0002 | | |
| 9/22/2020 | | | <0.0002 | | | |
| 9/23/2020 | 0.0014 (J) | <0.0002 | | | | |
| 2/1/2021 | 0.0013 | | | | | |
| 2/2/2021 | | | | 0.000175 (J) | | 0.00243 |
| 2/3/2021 | | | | | <0.0002 | |
| 2/9/2021 | | 8.74E-05 (J) | | | | |
| 2/10/2021 | | | 0.000873 | | | |
| 7/27/2021 | | | | | 8E-05 (J) | |
| 8/3/2021 | | 8E-05 (J) | | <0.0002 | | |
| 8/9/2021 | 0.00048 | | 0.00016 (J) | | | 0.00119 |
| 2/8/2022 | | | | | | 0.0008 |
| 2/14/2022 | | | | <0.0002 | <0.0002 | |
| 2/15/2022 | | | <0.0002 | | | |
| 2/16/2022 | | <0.0002 | | | | |
| 2/23/2022 | 0.00019 (J) | | | | | |
| Mean | 0.0009371 | 0.0001709 | 0.0002791 | 0.0001969 | 0.000185 | 0.001712 |
| Std. Dev. | 0.0009689 | 5.387E-05 | 0.0002404 | 8.839E-06 | 4.243E-05 | 0.001335 |
| Upper Lim. | 0.001929 | 0.0002 | 0.000873 | 0.0002 | 0.0002 | 0.003308 |
| Lower Lim. | 0.0001048 | 8E-05 | 0.00016 | 0.000175 | 8E-05 | 0.001125 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|------------|
| 10/15/2018 | | | 0.297 | | | | | |
| 10/16/2018 | 0.0341 | | | | | | 0.0406 | |
| 10/17/2018 | | | | | 0.0336 | | | |
| 2/21/2019 | | 0.0468 | | | | | | |
| 4/16/2019 | 0.0261 | | | | | | | |
| 4/17/2019 | | | 0.19 | | 0.0349 | 0.0574 | 0.0429 | 0.0421 |
| 9/23/2019 | | | | | | 0.0583 | | |
| 9/24/2019 | | | 0.469 | | 0.0362 | | 0.0392 | |
| 9/25/2019 | 0.028 | 0.0611 | | | | | | 0.0457 |
| 3/16/2020 | | | | | | 0.0665 | | |
| 3/18/2020 | 0.0297 | | 0.378 | 0.208 | | | | |
| 3/24/2020 | | 0.0462 | | | 0.035 | | 0.0417 | |
| 3/25/2020 | | | | | | | | 0.0434 |
| 5/12/2020 | | | | | | 0.0602 | | |
| 5/13/2020 | | | | | | | | 0.0409 |
| 9/21/2020 | | | | 0.116 | | 0.0579 | | |
| 9/22/2020 | | | | | 0.0343 | | 0.0435 | 0.0395 |
| 9/23/2020 | 0.0279 | 0.0409 | 0.414 | | | | | |
| 2/1/2021 | 0.0249 | 0.0384 | | | | | | 0.0445 |
| 2/2/2021 | | | | | | 0.0634 | | |
| 2/8/2021 | | | | | | | 0.0368 | |
| 2/9/2021 | | | 0.493 | 0.122 | | | | |
| 2/10/2021 | | | | | 0.0376 | | | |
| 8/3/2021 | | | 0.536 | 0.0986 | | 0.068 | | |
| 8/4/2021 | | | | | | | | 0.0443 |
| 8/9/2021 | 0.0354 | 0.0398 | | | 0.0326 | | | |
| 8/10/2021 | | | | | | | 0.0305 | |
| 2/14/2022 | | | | | | 0.0572 | | |
| 2/15/2022 | | | | | 0.033 | | | |
| 2/16/2022 | | | 0.263 | 0.0788 | | | | |
| 2/22/2022 | | | | | | | 0.0266 | 0.0354 |
| 2/23/2022 | | 0.0279 | | | | | | |
| 2/28/2022 | 0.0523 | | | | | | | |
| Mean | 0.0323 | 0.04301 | 0.38 | 0.1247 | 0.03465 | 0.06111 | 0.03773 | 0.04198 |
| Std. Dev. | 0.008869 | 0.01013 | 0.1212 | 0.04952 | 0.001666 | 0.004307 | 0.006132 | 0.003343 |
| Upper Lim. | 0.04049 | 0.05505 | 0.5085 | 0.2077 | 0.03642 | 0.068 | 0.04422 | 0.04552 |
| Lower Lim. | 0.0244 | 0.03098 | 0.2515 | 0.0417 | 0.03288 | 0.0572 | 0.03123 | 0.03843 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-6D | GS-AP-MW-6 | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|-------------|------------|------------|-------------|
| 10/15/2018 | | | 0.236 | 0.03 | 0.155 | |
| 10/16/2018 | 0.219 | | | | | |
| 4/16/2019 | | | 0.267 | <0.02 | | |
| 4/17/2019 | 0.312 | | | | | |
| 4/23/2019 | | | | | 0.144 | |
| 9/23/2019 | | | 0.264 | 0.0105 (J) | | |
| 9/24/2019 | 0.276 | | | | 0.156 | |
| 3/17/2020 | | | 0.292 | 0.0695 | 0.161 | |
| 3/18/2020 | 0.379 | | | | | |
| 3/23/2020 | | 0.146 | | | | 0.0309 |
| 9/16/2020 | | | | 0.066 | 0.16 | |
| 9/17/2020 | | | 0.299 | | | |
| 9/22/2020 | | | | | | 0.0293 |
| 9/23/2020 | 0.179 | 0.137 | | | | |
| 2/2/2021 | | | | | 0.183 | 0.0299 |
| 2/3/2021 | | | 0.312 | 0.0455 | | |
| 2/8/2021 | 0.239 | | | | | |
| 2/9/2021 | | 0.124 | | | | |
| 7/27/2021 | | | 0.326 | 0.0576 | | |
| 8/4/2021 | 0.213 | | | | | |
| 8/9/2021 | | | | | 0.205 | |
| 8/10/2021 | | | | | | 0.031 |
| 8/11/2021 | | 0.048 | | | | |
| 2/8/2022 | 0.0996 | 0.0835 | | | 0.203 | |
| 2/14/2022 | | | 0.302 | 0.0625 | | |
| 2/21/2022 | | | | | | 0.0293 |
| Mean | 0.2396 | 0.1077 | 0.2873 | 0.04395 | 0.1709 | 0.03008 |
| Std. Dev. | 0.08486 | 0.04105 | 0.02945 | 0.02431 | 0.02316 | 0.0008319 |
| Upper Lim. | 0.3295 | 0.1765 | 0.3185 | 0.06972 | 0.1954 | 0.03147 |
| Lower Lim. | 0.1496 | 0.03891 | 0.256 | 0.01818 | 0.1463 | 0.02869 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|
| 10/15/2018 | | | 0.0525 | | | | | |
| 10/16/2018 | <0.01 | | | | | | 0.00593 (J) | |
| 10/17/2018 | | | | | <0.01 | | | |
| 2/21/2019 | | 0.00253 (J) | | | | | | |
| 4/16/2019 | <0.01 | | | | | | | |
| 4/17/2019 | | | 0.029 | | <0.01 | 0.00661 (J) | 0.00703 (J) | 0.00293 (J) |
| 9/23/2019 | | | | | | 0.011 | | |
| 9/24/2019 | | | 0.0597 | | <0.01 | | 0.00562 (J) | |
| 9/25/2019 | <0.01 | 0.00942 (J) | | | | | | 0.00803 (J) |
| 3/16/2020 | | | | | | 0.00504 (J) | | |
| 3/18/2020 | 0.00444 (J) | | 0.0673 | 0.0327 | | | | |
| 3/24/2020 | | 0.00454 (J) | | | <0.01 | | 0.00605 (J) | |
| 3/25/2020 | | | | | | | | 0.00343 (J) |
| 5/12/2020 | | | | | | 0.00436 (J) | | |
| 5/13/2020 | | | | | | | | 0.00224 (J) |
| 9/21/2020 | | | | 0.0538 | | 0.00776 (J) | | |
| 9/22/2020 | | | | | <0.01 | | 0.0063 (J) | 0.00308 (J) |
| 9/23/2020 | 0.00577 (J) | 0.00463 (J) | 0.0744 | | | | | |
| 2/1/2021 | 0.00792 | 0.00164 | | | | | | 0.00427 |
| 2/2/2021 | | | | | | 0.00538 | | |
| 2/8/2021 | | | | | | | 0.00366 | |
| 2/9/2021 | | | 0.0644 | 0.0522 | | | | |
| 2/10/2021 | | | | | 0.00014 (J) | | | |
| 8/3/2021 | | | 0.0663 | 0.0311 | | 0.00157 | | |
| 8/4/2021 | | | | | | | | 0.00168 |
| 8/9/2021 | 0.00452 | 0.00302 | | | 0.00069 | | | |
| 8/10/2021 | | | | | | | 0.00269 | |
| 2/14/2022 | | | | | | 0.00252 | | |
| 2/15/2022 | | | | | 0.00032 | | | |
| 2/16/2022 | | | 0.0306 | 0.0272 | | | | |
| 2/22/2022 | | | | | | | 0.00267 | 0.00327 |
| 2/23/2022 | | 0.00144 | | | | | | |
| 2/28/2022 | 0.00903 | | | | | | | |
| Mean | 0.005835 | 0.003889 | 0.05553 | 0.0394 | 0.003269 | 0.00553 | 0.004994 | 0.003616 |
| Std. Dev. | 0.001704 | 0.002745 | 0.01708 | 0.01259 | 0.002394 | 0.002986 | 0.001721 | 0.001944 |
| Upper Lim. | 0.00903 | 0.00715 | 0.07362 | 0.06049 | 0.005 | 0.008695 | 0.006817 | 0.005472 |
| Lower Lim. | 0.00444 | 0.0006276 | 0.03743 | 0.01831 | 0.00014 | 0.002365 | 0.00317 | 0.001865 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

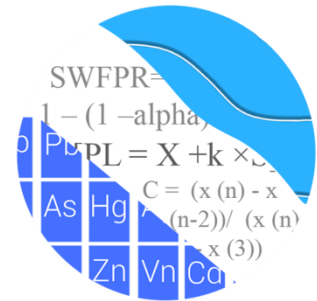
| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-6D | GS-AP-MW-6 | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|-------------|-------------|------------|-------------|
| 10/15/2018 | | | 0.00538 (J) | 0.00644 (J) | 0.168 | |
| 10/16/2018 | 0.061 | | | | | |
| 4/16/2019 | | | 0.00747 (J) | 0.00246 (J) | | |
| 4/17/2019 | 0.0885 | | | | | |
| 4/23/2019 | | | | | 0.185 | |
| 9/23/2019 | | | 0.00758 (J) | 0.00412 (J) | | |
| 9/24/2019 | 0.0613 | | | | 0.178 | |
| 3/17/2020 | | | 0.00959 (J) | 0.0272 | 0.193 | |
| 3/18/2020 | 0.102 | | | | | |
| 3/23/2020 | | 0.117 | | | | <0.01 |
| 9/16/2020 | | | | 0.0427 | 0.215 | |
| 9/17/2020 | | | 0.00924 (J) | | | |
| 9/22/2020 | | | | | | <0.01 |
| 9/23/2020 | 0.0404 | 0.12 | | | | |
| 2/2/2021 | | | | | 0.202 | 0.000538 |
| 2/3/2021 | | | 0.0095 | 0.0218 | | |
| 2/8/2021 | 0.0396 | | | | | |
| 2/9/2021 | | 0.0983 | | | | |
| 7/27/2021 | | | 0.0101 | 0.0452 | | |
| 8/4/2021 | 0.0367 | | | | | |
| 8/9/2021 | | | | | 0.207 | |
| 8/10/2021 | | | | | | 0.00269 |
| 8/11/2021 | | 0.0394 | | | | |
| 2/8/2022 | 0.0153 | 0.0819 | | | 0.221 | |
| 2/14/2022 | | | 0.0115 | 0.0411 | | |
| 2/21/2022 | | | | | | 0.0022 |
| Mean | 0.0556 | 0.09132 | 0.008795 | 0.02388 | 0.1961 | 0.003086 |
| Std. Dev. | 0.0287 | 0.03284 | 0.001899 | 0.01802 | 0.01844 | 0.001921 |
| Upper Lim. | 0.08602 | 0.1464 | 0.01081 | 0.04298 | 0.2157 | 0.003353 |
| Lower Lim. | 0.02518 | 0.03628 | 0.006782 | 0.004773 | 0.1766 | 0.0002661 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/16/2022 4:49 PM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6 |
|------------|--------------|
| 10/15/2018 | <0.01 |
| 4/16/2019 | <0.01 |
| 9/23/2019 | <0.01 |
| 3/17/2020 | <0.01 |
| 9/16/2020 | <0.01 |
| 2/3/2021 | 0.000794 (J) |
| 7/27/2021 | 0.00124 |
| 2/14/2022 | 0.00085 (J) |
| Mean | 0.00661 |
| Std. Dev. | 0.00468 |
| Upper Lim. | 0.01 |
| Lower Lim. | 0.000794 |

GROUNDWATER STATS CONSULTING



October 11, 2022

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Gorgas Ash Pond
2nd Semi-Annual Statistical Analysis – July/August 2022 Sampling Event

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the 2nd Semi-Annual July/August 2022 sample event for Alabama Power Company's Plant Gorgas Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency Unified Guidance (2009).

Sampling began at site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GS-AP-MW-8, GS-AP-MW-13, and GS-AP-MW-17V
- **Downgradient wells:** GS-AP-MW-1R, GS-AP-MW-2, GS-AP-MW-3, GS-AP-MW-3V, GS-AP-MW-5R, GS-AP-MW-6S, GS-AP-MW-6D, GS-AP-MW-7, GSA-AP-MW-9V, GS-AP-MW-9R, GS-AP-MW-10R, GS-AP-MW-11R, GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-13R, GS-AP-MW-14R, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-18R, GS-AP-MW-18VR, GS-AP-MW-19, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-45V, GS-AP-MW-46, and GS-AP-MW-47
- **Delineation wells:** GS-AP-PZ-16, GS-AP-PZ-18R, GS-AP-PZ-22, GS-AP-MW-23H, GS-AP-MW-23V, GS-AP-MW-24H, GS-AP-MW-25HA, GS-AP-MW-26H, GS-AP-MW-27HR, GS-AP-MW-28H, GS-AP-MW-29H, GS-AP-MW-30HA, GS-AP-MW-31H, GS-AP-MW-31V, GS-AP-MW-32H, GS-AP-MW-33HO,

GS-AP-MW-34HO, GS-AP-MW-35HO, GS-AP-MW-36H, GS-AP-MW-36V,
GS-AP-MW-37HR, GS-AP-MW-38H, GS-AP-MW-39H, GS-AP-MW-40HO,
GS-AP-MW-41HD, GS-AP-MW-41HS, GS-AP-MW-42H, GS-AP-MW-43HO,
GS-AP-MW-44HO, and GS-AP-MW-6V

- **Piezometers:** GS-AP-MW-1, GS-AP-MW-4, GS-AP-MW-7V, GS-AP-MW-7VR,
GS-AP-MW-16S, GS-AP-MW-20, GS-AP-MW-25H, GS-AP-MW-27H,
GS-AP-MW-30H, and GS-AP-MW-30HS

Note that data from delineation wells were plotted on time series graphs and box plots, but do not require formal statistics. GS-AP-MW-39H did not produce enough water to be sampled during this event. Additionally, the list of piezometers is included above for recordkeeping purposes, but data are not analyzed in this analysis.

New downgradient wells GS-AP-MW-1R, GS-AP-MW-3V, GS-AP-MW-5R, GS-AP-MW-9R, GS-AP-MW-10R, GS-AP-MW-11R, GS-AP-MW-13R, GS-AP-MW-18R, GS-AP-MW-18VR, GS-AP-MW-45V, GS-AP-MW-46, and GS-AP-MW-47 and new delineation wells GS-AP-PZ-18R, GS-AP-MW-23V, GS-AP-MW-27HR, GS-AP-MW-31V, GS-AP-MW-36V, and GS-AP-MW-37HR were installed in late 2021. Data from these wells, along with well GS-AP-MW-3, are plotted on the time series graphs and box plots. Statistical analyses for these wells will be performed for Appendix III constituents when the minimum required 8 samples are available and for Appendix IV constituents when the minimum 4 samples are available.

Upgradient well GS-AP-MW-13 was abandoned in April 2019; however, data from this well is used for constructing interwell statistical limits as historical concentrations represent the groundwater quality upgradient of the facility. Data from this well are plotted on the time series graphs and box plots, but are not yet used for the purpose of constructing statistical limits.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

The CCR program consists of the following constituents:

Appendix III (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Appendix IV (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). A substitution of the most recent reporting limit is used for non-detect data. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves are provided in this report to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods and site/data characteristics:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples: 39
- # Constituents: 7
- # Downgradient wells: 11

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, the following statistical methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Background Update Summary – Conducted in September 2019

Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event. Data from upgradient wells are periodically re-

screened for newly developing trends, which may require adjustment of the background period to eliminate the trend, as well as for outliers over the entire record. The formal screening which was last conducted in 2019 is described below. As discussed in the Statistical Analysis Plan (August 2020), interwell prediction limits are used to evaluate boron, calcium, chloride, fluoride, sulfate, pH, and TDS.

Prior to performing prediction limits, proposed background data through April 2019 were reviewed to identify any newly suspected outliers at upgradient wells for boron, calcium, chloride, fluoride, pH, sulfate, and TDS. Both Tukey's Test and visual screening are used to identify potential outliers. When identified, values were flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. Potential outliers that were identified by Tukey's test but are not greatly different from the rest of the data were not flagged. Also, outliers that are not identified as important by Tukey's test may be identified visually. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary of Tukey's test results was included with the September 2019 screening.

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data from upgradient wells for all parameters which utilize interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data is deselected prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. Statistically significant trends were noted in upgradient wells. No adjustments were required, however, because the period of record was short and the magnitudes of the trends were low relative to the average concentrations in background. A summary of the results was included with the September 2019 screening.

Evaluation of Appendix III Parameters – July/August 2022

Background (upgradient) well data were re-assessed for potential outliers during this analysis and no new values were flagged. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of previously flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, sulfate, pH, and TDS (Figure D). Interwell prediction

limits pool upgradient well data through August 2022 to establish a background limit for an individual constituent. The July/August 2022 sample from each downgradient well is compared to the background limits to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research is required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. A summary of the prediction limit results may be found in the Prediction Limit Summary tables following this letter (pages 12-14). Exceedances for interwell prediction limits were identified for several well/constituent pairs:

- Boron: GS-AP-MW-2, GS-AP-MW-6D, GS-AP-MW-6S, GS-AP-MW-7, and GS-AP-MW-21
- Calcium: GS-AP-MW-6D, GS-AP-MW-6S, and GS-AP-MW-19
- Chloride: GS-AP-MW-2, GS-AP-MW-6D, GS-AP-MW-6S, GS-AP-MW-7, GS-AP-MW-15, GS-AP-MW-17, GS-AP-MW-19, and GS-AP-MW-21
- Fluoride: GS-AP-MW-2 and GS-AP-MW-15
- pH: GS-AP-MW-2, GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-17, GS-AP-MW-19, and GS-AP-MW-21
- Sulfate: GS-AP-MW-2, GS-AP-MW-6D, GS-AP-MW-6S, GS-AP-MW-7, GS-AP-MW-12, GS-AP-MW-16D, GS-AP-MW-19, and GS-AP-MW-21
- TDS: GS-AP-MW-15, GS-AP-MW-17, and GS-AP-MW-21

Trend Test Evaluation

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. The existence of similar trends in both upgradient and downgradient wells is an indication of natural variability in groundwater that is unrelated to practices at the site. A summary of the trend test results follows this letter (pages 15 and 16). Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: GS-AP-MW-6D and GS-AP-MW-7
- Calcium: GS-AP-MW-6D and GS-AP-MW-19
- Chloride: GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-8 (upgradient) and GS-AP-MW-21
- Fluoride: GS-AP-MW-13 (upgradient)
- pH: GS-AP-MW-2, GS-AP-MW-12, GS-AP-MW-15
- Sulfate: GS-AP-MW-12, GS-AP-MW-16D, and GS-AP-MW-21
- TDS: GS-AP-MW-21

Decreasing:

- Boron: GS-AP-MW-6S
- Fluoride: GS-AP-MW-2
- pH: GS-AP-MW-19
- Sulfate: GS-AP-MW-6S

Evaluation of Appendix IV Parameters – July/August 2022

Data from upgradient wells for Appendix IV parameters were assessed for outliers during previous analyses. A summary of flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management (ADEM), the Groundwater Protections Standards (GWPS) were updated during the 2021 2nd semi-annual statistical analysis. The GWPS will be updated again during the 2023 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

Interwell Upper Tolerance Limits

First, background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data through August 2021. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed (Figure F). A summary of the upper tolerance limits follows this report (page 17). The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two was used as the GWPS (Figure G, page 18) in the confidence interval comparisons described below.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through August 2022 for each of the Appendix IV parameters. Confidence intervals were included for newer wells with a minimum of 4 samples (Figure I). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects.

As mentioned above, well/constituent pairs containing 100% non-detects for the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of those deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter (pages 19-21). Exceedances were noted for the following well/constituent pairs:

- Arsenic: GS-AP-MW-6D and GS-AP-MW-7
- Lithium: GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-15, and GS-AP-MW-21
- Molybdenum: GS-AP-MW-7

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Gorgas Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

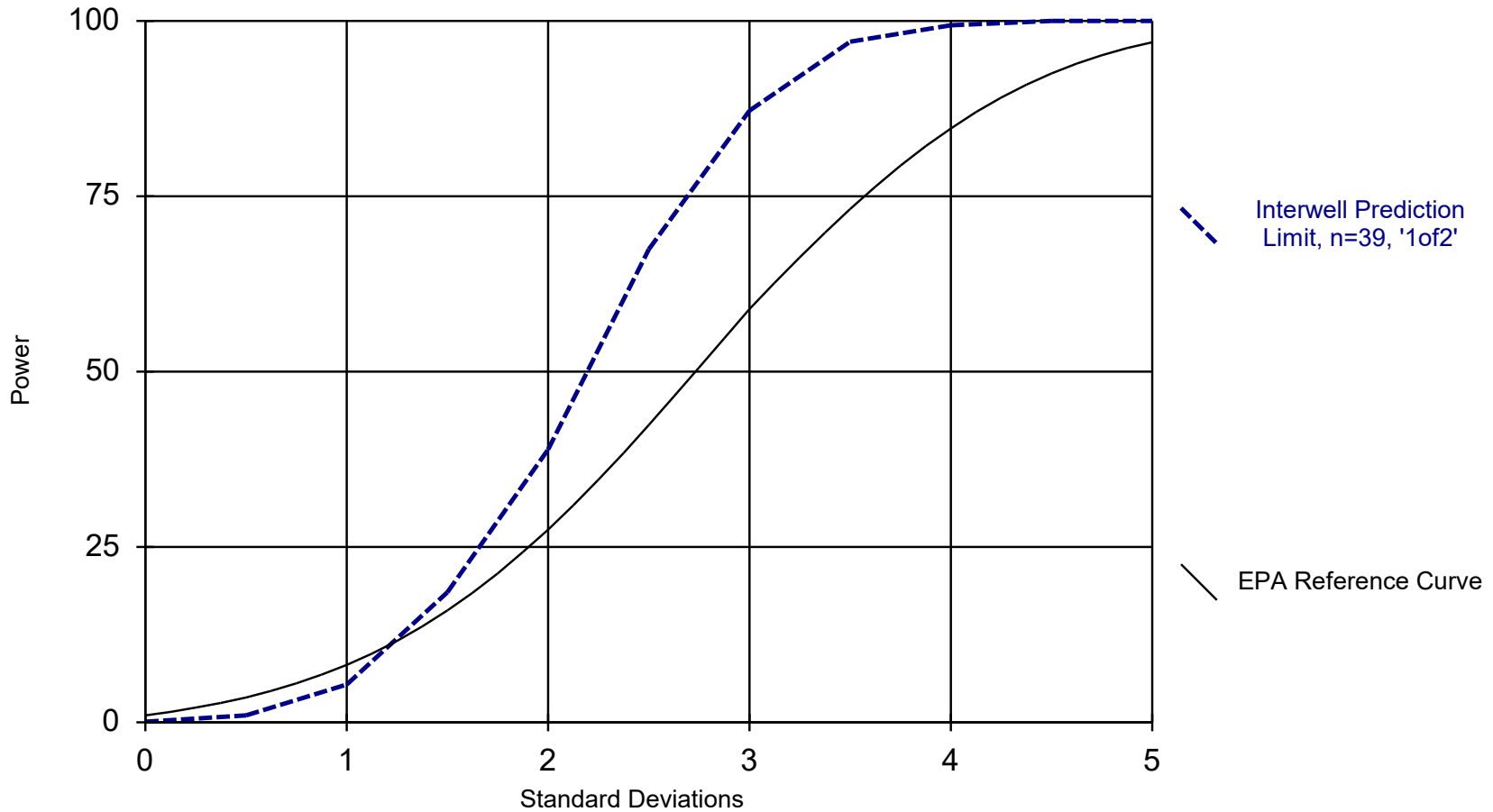


Andrew Collins
Project Manager



Kristina Rayner
Senior Statistician

Interwell Power Curve



Kappa = 2.099, based on 11 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 10/5/2022 11:55 AM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

100% Non-Detects: Appendix IV Downgradient

Analysis Run 10/4/2022 11:56 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Antimony (mg/L)

GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-3, GS-AP-MW-9V

Beryllium (mg/L)

GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-9V

Cadmium (mg/L)

GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-9V

Cobalt (mg/L)

GS-AP-MW-12, GS-AP-MW-15V, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-9V

Lead (mg/L)

GS-AP-MW-12, GS-AP-MW-15V, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-9V

Mercury (mg/L)

GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-9V

Selenium (mg/L)

GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-9V

Thallium (mg/L)

GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-15V, GS-AP-MW-16D, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-21V, GS-AP-MW-3, GS-AP-MW-6D, GS-AP-MW-7, GS-AP-MW-9V

Appendix III Interwell Prediction Limits - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 1:20 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------|--------------|------------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L) | GS-AP-MW-2 | 0.1015 | n/a | 7/19/2022 | 0.106 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-21 | 0.1015 | n/a | 8/10/2022 | 0.119 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6D | 0.1015 | n/a | 7/25/2022 | 1.39 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6S | 0.1015 | n/a | 7/26/2022 | 1.11 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-7 | 0.1015 | n/a | 7/25/2022 | 1.73 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-19 | 48.1 | n/a | 8/3/2022 | 56.4 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6D | 48.1 | n/a | 7/25/2022 | 57.9 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6S | 48.1 | n/a | 7/26/2022 | 51.8 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15 | 4.32 | n/a | 8/2/2022 | 4.36 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-17 | 4.32 | n/a | 8/8/2022 | 6.21 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-19 | 4.32 | n/a | 8/3/2022 | 5.35 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-2 | 4.32 | n/a | 7/19/2022 | 4.42 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-21 | 4.32 | n/a | 8/10/2022 | 44 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6D | 4.32 | n/a | 7/25/2022 | 9.533 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6S | 4.32 | n/a | 7/26/2022 | 22.9 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-7 | 4.32 | n/a | 7/25/2022 | 7.973 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.2825 | n/a | 8/2/2022 | 0.373 | Yes | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.2825 | n/a | 7/19/2022 | 0.752 | Yes | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| pH (SU) | GS-AP-MW-12 | 7.76 | 5.02 | 7/19/2022 | 8.79 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-12V | 7.76 | 5.02 | 7/20/2022 | 8.52 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15 | 7.76 | 5.02 | 8/2/2022 | 11.84 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-17 | 7.76 | 5.02 | 8/8/2022 | 8.38 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-19 | 7.76 | 5.02 | 8/3/2022 | 7.87 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-2 | 7.76 | 5.02 | 7/19/2022 | 9.6 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-21 | 7.76 | 5.02 | 8/10/2022 | 9.26 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-12 | 15.2 | n/a | 7/19/2022 | 18.5 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-16D | 15.2 | n/a | 8/2/2022 | 15.6 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-19 | 15.2 | n/a | 8/3/2022 | 17.1 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-2 | 15.2 | n/a | 7/19/2022 | 19.4 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-21 | 15.2 | n/a | 8/10/2022 | 245 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6D | 15.2 | n/a | 7/25/2022 | 57.6 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6S | 15.2 | n/a | 7/26/2022 | 106 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-7 | 15.2 | n/a | 7/25/2022 | 137.8 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15 | 368 | n/a | 8/2/2022 | 592 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-17 | 368 | n/a | 8/8/2022 | 446 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-21 | 368 | n/a | 8/10/2022 | 592 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |

Appendix III Interwell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 1:20 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|------------------------|---------------------|---------------|-------------|------------------|--------------|------------|-----------|---------------|----------------|--------------|-------------|------------|------------------|------------------------------------|
| Boron (mg/L) | GS-AP-MW-12 | 0.1015 | n/a | 7/19/2022 | 0.1015ND | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-12V | 0.1015 | n/a | 7/20/2022 | 0.1015ND | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-15 | 0.1015 | n/a | 8/2/2022 | 0.0426J | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-16D | 0.1015 | n/a | 8/2/2022 | 0.1015ND | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-17 | 0.1015 | n/a | 8/8/2022 | 0.0717J | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-19 | 0.1015 | n/a | 8/3/2022 | 0.0329J | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-2 | 0.1015 | n/a | 7/19/2022 | 0.106 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-21 | 0.1015 | n/a | 8/10/2022 | 0.119 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6D | 0.1015 | n/a | 7/25/2022 | 1.39 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6S | 0.1015 | n/a | 7/26/2022 | 1.11 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-7 | 0.1015 | n/a | 7/25/2022 | 1.73 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-12 | 48.1 | n/a | 7/19/2022 | 37.6 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-12V | 48.1 | n/a | 7/20/2022 | 47.5 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-15 | 48.1 | n/a | 8/2/2022 | 3.31 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-16D | 48.1 | n/a | 8/2/2022 | 33.8 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-17 | 48.1 | n/a | 8/8/2022 | 2.44 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-19 | 48.1 | n/a | 8/3/2022 | 56.4 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-2 | 48.1 | n/a | 7/19/2022 | 0.359J | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-21 | 48.1 | n/a | 8/10/2022 | 3.49 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6D | 48.1 | n/a | 7/25/2022 | 57.9 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6S | 48.1 | n/a | 7/26/2022 | 51.8 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-7 | 48.1 | n/a | 7/25/2022 | 10.6 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-12 | 4.32 | n/a | 7/19/2022 | 2.99 | No | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-12V | 4.32 | n/a | 7/20/2022 | 3.85 | No | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15 | 4.32 | n/a | 8/2/2022 | 4.36 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-16D | 4.32 | n/a | 8/2/2022 | 3.65 | No | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-17 | 4.32 | n/a | 8/8/2022 | 6.21 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-19 | 4.32 | n/a | 8/3/2022 | 5.35 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-2 | 4.32 | n/a | 7/19/2022 | 4.42 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-21 | 4.32 | n/a | 8/10/2022 | 44 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6D | 4.32 | n/a | 7/25/2022 | 9.533 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6S | 4.32 | n/a | 7/26/2022 | 22.9 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-7 | 4.32 | n/a | 7/25/2022 | 7.973 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-12 | 0.2825 | n/a | 7/19/2022 | 0.0983J | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-12V | 0.2825 | n/a | 7/20/2022 | 0.18 | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.2825 | n/a | 8/2/2022 | 0.373 | Yes | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-16D | 0.2825 | n/a | 8/2/2022 | 0.112J | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-17 | 0.2825 | n/a | 8/8/2022 | 0.257 | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-19 | 0.2825 | n/a | 8/3/2022 | 0.231 | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.2825 | n/a | 7/19/2022 | 0.752 | Yes | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-21 | 0.2825 | n/a | 8/10/2022 | 0.186 | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-6D | 0.2825 | n/a | 7/25/2022 | 0.0978J | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-6S | 0.2825 | n/a | 7/26/2022 | 0.164 | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-7 | 0.2825 | n/a | 7/25/2022 | 0.0896J | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| pH (SU) | GS-AP-MW-12 | 7.76 | 5.02 | 7/19/2022 | 8.79 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-12V | 7.76 | 5.02 | 7/20/2022 | 8.52 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15 | 7.76 | 5.02 | 8/2/2022 | 11.84 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-16D | 7.76 | 5.02 | 8/2/2022 | 7.49 | No | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-17 | 7.76 | 5.02 | 8/8/2022 | 8.38 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-19 | 7.76 | 5.02 | 8/3/2022 | 7.87 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-2 | 7.76 | 5.02 | 7/19/2022 | 9.6 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-21 | 7.76 | 5.02 | 8/10/2022 | 9.26 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-6D | 7.76 | 5.02 | 7/25/2022 | 6.95 | No | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-6S | 7.76 | 5.02 | 7/26/2022 | 6.97 | No | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-7 | 7.76 | 5.02 | 7/25/2022 | 7.64 | No | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |

Appendix III Interwell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 1:20 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|---------------------|-------------|------------|------------------|--------------|------------|-----------|------------|------------|----------|------------|------------|-----------------|------------------------------------|
| Sulfate (mg/L) | GS-AP-MW-12 | 15.2 | n/a | 7/19/2022 | 18.5 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-12V | 15.2 | n/a | 7/20/2022 | 1.08J | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-15 | 15.2 | n/a | 8/2/2022 | 9.11 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-16D | 15.2 | n/a | 8/2/2022 | 15.6 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-17 | 15.2 | n/a | 8/8/2022 | 8.35 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-19 | 15.2 | n/a | 8/3/2022 | 17.1 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-2 | 15.2 | n/a | 7/19/2022 | 19.4 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-21 | 15.2 | n/a | 8/10/2022 | 245 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6D | 15.2 | n/a | 7/25/2022 | 57.6 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6S | 15.2 | n/a | 7/26/2022 | 106 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-7 | 15.2 | n/a | 7/25/2022 | 137.8 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-12 | 368 | n/a | 7/19/2022 | 199 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-12V | 368 | n/a | 7/20/2022 | 189 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15 | 368 | n/a | 8/2/2022 | 592 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-16D | 368 | n/a | 8/2/2022 | 210 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-17 | 368 | n/a | 8/8/2022 | 446 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-19 | 368 | n/a | 8/3/2022 | 327 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-2 | 368 | n/a | 7/19/2022 | 262 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-21 | 368 | n/a | 8/10/2022 | 592 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-6D | 368 | n/a | 7/25/2022 | 286 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-6S | 368 | n/a | 7/26/2022 | 311 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-7 | 368 | n/a | 7/25/2022 | 308.3 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 1:29 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------|------------------|----------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Boron (mg/L) | GS-AP-MW-6D | 0.04854 | 115 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-6S | -0.05502 | -84 | -74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-7 | 0.0488 | 114 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-19 | 2.671 | 93 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6D | 1.265 | 109 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-21 | 3.212 | 115 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-6D | 1.186 | 127 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-7 | 0.6846 | 158 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-8 (bg) | 0.1958 | 100 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-13 (bg) | 0.02914 | 48 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-2 | -0.1448 | -156 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-12 | 0.1291 | 111 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-15 | 0.3174 | 106 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-19 | -0.0756 | -86 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-2 | 0.05458 | 107 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-12 | 3.11 | 83 | 74 | Yes | 19 | 5.263 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-16D | 0.4932 | 100 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-21 | 45.63 | 155 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-6S | -25.45 | -98 | -74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-21 | 54.51 | 113 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 1:29 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|------------------------|-------------------------|-----------------|-------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Boron (mg/L) | GS-AP-MW-13 (bg) | 0 | 0 | 38 | No | 12 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-17V (bg) | -0.002946 | -6 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-2 | 0.003191 | 18 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-21 | 0.003685 | 56 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-6D | 0.04854 | 115 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-6S | -0.05502 | -84 | -74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-7 | 0.0488 | 114 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-8 (bg) | 0 | 18 | 74 | No | 19 | 94.74 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-13 (bg) | -2.607 | -32 | -38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-17V (bg) | 0.5155 | 8 | 21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-19 | 2.671 | 93 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6D | 1.265 | 109 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6S | -2.472 | -47 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-8 (bg) | -0.5125 | -54 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-13 (bg) | 0.1178 | 10 | 38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-15 | -0.2488 | -39 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-17 | 0.248 | 15 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-17V (bg) | -0.1941 | -14 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-19 | -0.236 | -73 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-2 | -0.0806 | -11 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-21 | 3.212 | 115 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-6D | 1.186 | 127 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-6S | -0.6418 | -46 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-7 | 0.6846 | 158 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-8 (bg) | 0.1958 | 100 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-13 (bg) | 0.02914 | 48 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-15 | -0.03405 | -52 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-17V (bg) | 0.000751 | 3 | 21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-2 | -0.1448 | -156 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-8 (bg) | 0.00285 | 29 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-12 | 0.1291 | 111 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-12V | -0.05815 | -2 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-13 (bg) | -0.05825 | -34 | -43 | No | 13 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-15 | 0.3174 | 106 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-17 | -0.003917 | -24 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-17V (bg) | -0.05933 | -15 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-19 | -0.0756 | -86 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-2 | 0.05458 | 107 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-21 | 0.07264 | 28 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-8 (bg) | -0.03466 | -73 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-12 | 3.11 | 83 | 74 | Yes | 19 | 5.263 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-13 (bg) | 0.01849 | 11 | 38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-16D | 0.4932 | 100 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-17V (bg) | -1.512 | -20 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-19 | 1.395 | 48 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-2 | 2.688 | 22 | 81 | No | 20 | 10 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-21 | 45.63 | 155 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-6D | 1.001 | 35 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-6S | -25.45 | -98 | -74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-7 | -1.108 | -32 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-8 (bg) | 0.169 | 36 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-13 (bg) | -7.182 | -29 | -38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-15 | 34.3 | 59 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-17 | 19.56 | 72 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-17V (bg) | -2.073 | -5 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-21 | 54.51 | 113 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-8 (bg) | -2.33 | -37 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |

Upper Tolerance Limits

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 1/3/2022, 11:49 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------|
| Antimony (mg/L) | n/a | 0.00115 | n/a | n/a | n/a | 35 | 94.29 | n/a | 0.1661 | NP Inter |
| Arsenic (mg/L) | n/a | 0.005 | n/a | n/a | n/a | 35 | 71.43 | n/a | 0.1661 | NP Inter |
| Barium (mg/L) | n/a | 0.353 | n/a | n/a | n/a | 35 | 0 | n/a | 0.1661 | NP Inter |
| Beryllium (mg/L) | n/a | 0.00102 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Cadmium (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Chromium (mg/L) | n/a | 0.01 | n/a | n/a | n/a | 35 | 77.14 | n/a | 0.1661 | NP Inter |
| Cobalt (mg/L) | n/a | 0.00362 | n/a | n/a | n/a | 35 | 80 | n/a | 0.1661 | NP Inter |
| Combined Radium 226 + 228 (pCi/L) | n/a | 1.25 | n/a | n/a | n/a | 35 | 0 | n/a | 0.1661 | NP Inter |
| Fluoride (mg/L) | n/a | 0.278 | n/a | n/a | n/a | 37 | 0 | n/a | 0.1499 | NP Inter |
| Lead (mg/L) | n/a | 0.00189 | n/a | n/a | n/a | 35 | 91.43 | n/a | 0.1661 | NP Inter |
| Lithium (mg/L) | n/a | 0.0809 | n/a | n/a | n/a | 35 | 54.29 | n/a | 0.1661 | NP Inter |
| Mercury (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Molybdenum (mg/L) | n/a | 0.00906 | n/a | n/a | n/a | 35 | 82.86 | n/a | 0.1661 | NP Inter |
| Selenium (mg/L) | n/a | 0.00102 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Thallium (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |

| GORGAS ASH POND GWPS | | | |
|-----------------------------|--------------|-------------------|-------------|
| Analyte | Units | Background | GWPS |
| Antimony | mg/L | 0.00115 | 0.006 |
| Arsenic | mg/L | 0.005 | 0.01 |
| Barium | mg/L | 0.353 | 2 |
| Beryllium | mg/L | 0.00102 | 0.004 |
| Cadmium | mg/L | 0.0002 | 0.005 |
| Chromium | mg/L | 0.01 | 0.1 |
| Cobalt | mg/L | 0.00362 | 0.006 |
| Combined Radium-226/228 | pCi/L | 1.25 | 5 |
| Fluoride | mg/L | 0.278 | 4 |
| Lead | mg/L | 0.00189 | 0.015 |
| Lithium | mg/L | 0.0809 | 0.0809 |
| Mercury | mg/L | 0.0005 | 0.002 |
| Molybdenum | mg/L | 0.00906 | 0.1 |
| Selenium | mg/L | 0.00102 | 0.05 |
| Thallium | mg/L | 0.0002 | 0.002 |

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

Confidence Intervals - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 11:58 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------|-------------|------------|------------|------------|--------------|------|---|--------|-----------|------|---------|-----------|-------|----------------|
| Arsenic (mg/L) | GS-AP-MW-6D | 0.1149 | 0.08975 | 0.01 | n/a | Yes | 8 | 0.1023 | 0.01188 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-7 | 0.285 | 0.207 | 0.01 | n/a | Yes | 8 | 0.2646 | 0.02871 | 0 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | GS-AP-MW-15 | 0.5427 | 0.2753 | 0.0809 | n/a | Yes | 8 | 0.409 | 0.1262 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21 | 0.3299 | 0.1162 | 0.0809 | n/a | Yes | 8 | 0.2231 | 0.1008 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-6D | 0.3311 | 0.2714 | 0.0809 | n/a | Yes | 8 | 0.3013 | 0.0282 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-7 | 0.2109 | 0.1488 | 0.0809 | n/a | Yes | 8 | 0.1799 | 0.02929 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-7 | 0.2181 | 0.1856 | 0.1 | n/a | Yes | 8 | 0.2019 | 0.01533 | 0 | None | No | 0.01 | Param. |

Confidence Intervals - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 11:58 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|--------------------|---------------|----------------|-------------|--------------|------------|----------|---------------|----------------|----------|--------------|-----------|--------------|-----------------------|
| Antimony (mg/L) | GS-AP-MW-12 | 0.004079 | 0.0007964 | 0.006 | n/a | No | 8 | 0.002284 | 0.001727 | 25 | Kaplan-Meier | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-12V | 0.001754 | 0.0005393 | 0.006 | n/a | No | 8 | 0.001127 | 0.0006444 | 0 | None | sqrt(x) | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-15 | 0.0008948 | 0.0006595 | 0.006 | n/a | No | 8 | 0.0008366 | 0.0001506 | 25 | Kaplan-Meier | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-15V | 0.003069 | 0.0007644 | 0.006 | n/a | No | 6 | 0.001917 | 0.0008388 | 0 | None | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-21V | 0.001015 | 0.000661 | 0.006 | n/a | No | 6 | 0.0009253 | 0.000149 | 66.67 | None | No | 0.0155 | NP (NDs) |
| Antimony (mg/L) | GS-AP-MW-6D | 0.001015 | 0.000828 | 0.006 | n/a | No | 8 | 0.0009916 | 0.00006611 | 87.5 | None | No | 0.004 | NP (NDs) |
| Antimony (mg/L) | GS-AP-MW-7 | 0.00105 | 0.001015 | 0.006 | n/a | No | 8 | 0.001019 | 0.00001237 | 87.5 | None | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-12 | 0.01171 | 0.003239 | 0.01 | n/a | No | 8 | 0.00733 | 0.004276 | 0 | None | sqrt(x) | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-12V | 0.002077 | 0.0005765 | 0.01 | n/a | No | 8 | 0.001327 | 0.0007077 | 12.5 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-15 | 0.01812 | 0.006942 | 0.01 | n/a | No | 8 | 0.01253 | 0.005273 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-15V | 0.01725 | 0.006124 | 0.01 | n/a | No | 6 | 0.01169 | 0.00405 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-16D | 0.000491 | 0.0001 | 0.01 | n/a | No | 8 | 0.0002158 | 0.000119 | 62.5 | None | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-17 | 0.005472 | 0.0008749 | 0.01 | n/a | No | 8 | 0.003174 | 0.002169 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-19 | 0.003225 | 0.001398 | 0.01 | n/a | No | 8 | 0.002311 | 0.000862 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-2 | 0.000203 | 0.000083 | 0.01 | n/a | No | 8 | 0.000188 | 0.00004243 | 87.5 | None | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-21 | 0.000624 | 0.000203 | 0.01 | n/a | No | 8 | 0.0003664 | 0.0001807 | 50 | None | No | 0.004 | NP (normality) |
| Arsenic (mg/L) | GS-AP-MW-21V | 0.0142 | 0.00005729 | 0.01 | n/a | No | 6 | 0.007128 | 0.005147 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-3 | 0.0002279 | 0.00009458 | 0.01 | n/a | No | 4 | 0.0001613 | 0.00002936 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-6D | 0.1149 | 0.08975 | 0.01 | n/a | Yes | 8 | 0.1023 | 0.01188 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-7 | 0.285 | 0.207 | 0.01 | n/a | Yes | 8 | 0.2646 | 0.02871 | 0 | None | No | 0.004 | NP (normality) |
| Arsenic (mg/L) | GS-AP-MW-9V | 0.000299 | 0.00006266 | 0.01 | n/a | No | 6 | 0.0002148 | 0.0000717 | 33.33 | Kaplan-Meier | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-12 | 0.2035 | 0.1732 | 2 | n/a | No | 8 | 0.1884 | 0.01428 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-12V | 1.483 | 1.099 | 2 | n/a | No | 8 | 1.291 | 0.1812 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-15 | 0.271 | 0.0913 | 2 | n/a | No | 8 | 0.1597 | 0.06816 | 0 | None | No | 0.004 | NP (normality) |
| Barium (mg/L) | GS-AP-MW-15V | 0.2402 | 0.1438 | 2 | n/a | No | 6 | 0.192 | 0.03506 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-16D | 0.3519 | 0.3221 | 2 | n/a | No | 8 | 0.337 | 0.01409 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-17 | 0.135 | 0.0875 | 2 | n/a | No | 8 | 0.1029 | 0.01879 | 0 | None | No | 0.004 | NP (normality) |
| Barium (mg/L) | GS-AP-MW-19 | 0.3558 | 0.3237 | 2 | n/a | No | 8 | 0.3398 | 0.01514 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-2 | 0.06554 | 0.04941 | 2 | n/a | No | 8 | 0.05748 | 0.007608 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-21 | 0.1561 | 0.105 | 2 | n/a | No | 8 | 0.1306 | 0.02407 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-21V | 0.06585 | 0.03199 | 2 | n/a | No | 6 | 0.04892 | 0.01232 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-3 | 0.59 | 0.492 | 2 | n/a | No | 4 | 0.5423 | 0.05462 | 0 | None | No | 0.0625 | NP (normality) |
| Barium (mg/L) | GS-AP-MW-6D | 0.8133 | 0.4047 | 2 | n/a | No | 8 | 0.609 | 0.1927 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-7 | 0.1416 | 0.06858 | 2 | n/a | No | 8 | 0.1051 | 0.03446 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-9V | 0.2065 | 0.1521 | 2 | n/a | No | 6 | 0.1793 | 0.01981 | 0 | None | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-12 | 0.00102 | 0.00031 | 0.1 | n/a | No | 8 | 0.000844 | 0.0003259 | 75 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-12V | 0.004746 | 0.0005082 | 0.1 | n/a | No | 8 | 0.002508 | 0.002397 | 12.5 | None | sqrt(x) | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-15 | 0.00102 | 0.00048 | 0.1 | n/a | No | 8 | 0.0008741 | 0.0001968 | 50 | None | No | 0.004 | NP (normality) |
| Chromium (mg/L) | GS-AP-MW-15V | 0.005392 | 0.00004034 | 0.1 | n/a | No | 6 | 0.002088 | 0.002595 | 0 | None | sqrt(x) | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-16D | 0.00107 | 0.00025 | 0.1 | n/a | No | 8 | 0.0008102 | 0.0003253 | 50 | None | No | 0.004 | NP (normality) |
| Chromium (mg/L) | GS-AP-MW-17 | 0.0009186 | 0.0002299 | 0.1 | n/a | No | 8 | 0.0009642 | 0.0007192 | 50 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-19 | 0.00102 | 0.000258 | 0.1 | n/a | No | 8 | 0.0007612 | 0.0003595 | 62.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-2 | 0.00102 | 0.00044 | 0.1 | n/a | No | 8 | 0.000793 | 0.000273 | 50 | None | No | 0.004 | NP (normality) |
| Chromium (mg/L) | GS-AP-MW-21 | 0.00102 | 0.0004 | 0.1 | n/a | No | 8 | 0.000804 | 0.0002693 | 50 | None | No | 0.004 | NP (normality) |
| Chromium (mg/L) | GS-AP-MW-21V | 0.001028 | -0.00002224 | 0.1 | n/a | No | 6 | 0.000731 | 0.0004536 | 33.33 | Kaplan-Meier | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-3 | 0.0003622 | 0.0002283 | 0.1 | n/a | No | 4 | 0.0002953 | 0.0000295 | 0 | None | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-6D | 0.00102 | 0.00024 | 0.1 | n/a | No | 8 | 0.0006406 | 0.000406 | 50 | None | No | 0.004 | NP (normality) |
| Chromium (mg/L) | GS-AP-MW-7 | 0.005833 | 0.0008019 | 0.1 | n/a | No | 8 | 0.003317 | 0.002373 | 12.5 | None | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-9V | 0.00102 | 0.000228 | 0.1 | n/a | No | 6 | 0.0006502 | 0.0004063 | 50 | None | No | 0.0155 | NP (normality) |
| Cobalt (mg/L) | GS-AP-MW-12V | 0.00277 | 0.00013 | 0.006 | n/a | No | 8 | 0.000679 | 0.000927 | 50 | None | No | 0.004 | NP (normality) |
| Cobalt (mg/L) | GS-AP-MW-15 | 0.000203 | 0.00009 | 0.006 | n/a | No | 8 | 0.0001889 | 0.00003995 | 87.5 | None | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-16D | 0.000252 | 0.00009 | 0.006 | n/a | No | 8 | 0.000195 | 0.00004576 | 75 | None | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-17 | 0.000203 | 0.000102 | 0.006 | n/a | No | 8 | 0.0001904 | 0.00003571 | 87.5 | None | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-7 | 0.003527 | 0.0001588 | 0.006 | n/a | No | 8 | 0.001843 | 0.001589 | 12.5 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-12 | 0.9811 | 0.4074 | 5 | n/a | No | 8 | 0.6943 | 0.2706 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-12V | 1.317 | 0.561 | 5 | n/a | No | 8 | 0.9391 | 0.3567 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-15 | 1.031 | 0.162 | 5 | n/a | No | 8 | 0.5966 | 0.41 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-15V | 1.034 | 0.3055 | 5 | n/a | No | 6 | 0.6697 | 0.2651 | 0 | None | No | 0.01 | Param. |

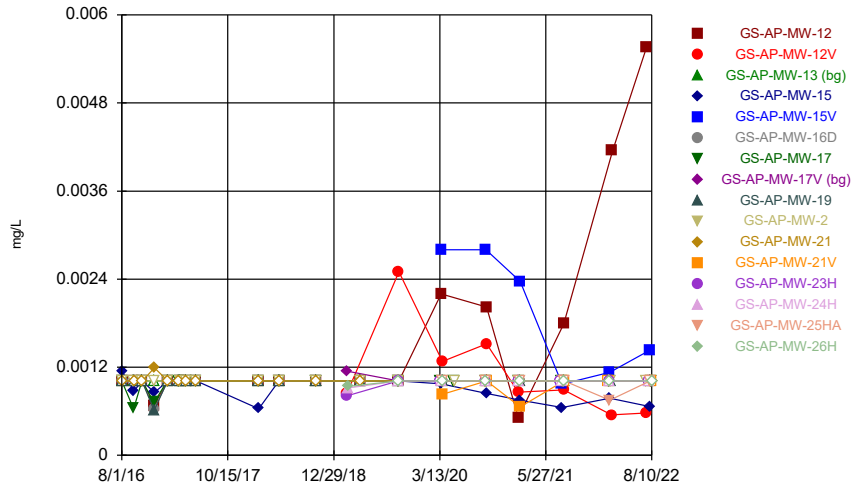
Confidence Intervals - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 11:58 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|--------------------|---------------|---------------|---------------|--------------|------------|----------|---------------|----------------|----------|--------------|-----------|-------------|----------------|
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-16D | 0.8631 | 0.1174 | 5 | n/a | No | 8 | 0.4903 | 0.3518 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-17 | 1.456 | 0.05281 | 5 | n/a | No | 8 | 0.7018 | 0.8112 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-19 | 1.561 | 0.406 | 5 | n/a | No | 8 | 0.9834 | 0.5447 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-2 | 4 | 0.21 | 5 | n/a | No | 8 | 0.8843 | 1.27 | 0 | None | No | 0.004 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-21 | 0.8384 | 0.3311 | 5 | n/a | No | 8 | 0.5848 | 0.2393 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-21V | 0.9904 | 0.3826 | 5 | n/a | No | 6 | 0.6865 | 0.2212 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-3 | 1.226 | -0.03466 | 5 | n/a | No | 4 | 0.5958 | 0.2777 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-6D | 0.9825 | 0.3857 | 5 | n/a | No | 8 | 0.6841 | 0.2815 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-7 | 1.399 | 0.3877 | 5 | n/a | No | 8 | 0.8934 | 0.477 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-9V | 1.037 | -0.06831 | 5 | n/a | No | 6 | 0.4842 | 0.4022 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-12 | 0.1661 | 0.1042 | 4 | n/a | No | 8 | 0.1352 | 0.02918 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-12V | 0.1945 | 0.158 | 4 | n/a | No | 8 | 0.1763 | 0.01723 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.6417 | 0.3878 | 4 | n/a | No | 8 | 0.5148 | 0.1197 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-15V | 0.365 | 0.1804 | 4 | n/a | No | 6 | 0.2727 | 0.06719 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-16D | 0.1441 | 0.1033 | 4 | n/a | No | 8 | 0.1234 | 0.02127 | 0 | None | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-17 | 0.3425 | 0.2288 | 4 | n/a | No | 8 | 0.2856 | 0.05364 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-19 | 0.3315 | 0.2523 | 4 | n/a | No | 8 | 0.2919 | 0.03735 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.9146 | 0.7806 | 4 | n/a | No | 8 | 0.8476 | 0.0632 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-21 | 0.2492 | 0.1826 | 4 | n/a | No | 8 | 0.2159 | 0.03139 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-21V | 0.6164 | 0.3486 | 4 | n/a | No | 6 | 0.4825 | 0.0975 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-3 | 0.102 | 0.0625 | 4 | n/a | No | 4 | 0.08175 | 0.02224 | 50 | None | No | 0.0625 | NP (normality) |
| Fluoride (mg/L) | GS-AP-MW-6D | 0.1464 | 0.1088 | 4 | n/a | No | 8 | 0.1276 | 0.01774 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-7 | 0.1224 | 0.09278 | 4 | n/a | No | 8 | 0.1076 | 0.01398 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-9V | 0.1887 | 0.16 | 4 | n/a | No | 6 | 0.1743 | 0.01046 | 0 | None | No | 0.01 | Param. |
| Lead (mg/L) | GS-AP-MW-12V | 0.00279 | 0.00019 | 0.015 | n/a | No | 8 | 0.0008461 | 0.0009333 | 37.5 | None | No | 0.004 | NP (normality) |
| Lead (mg/L) | GS-AP-MW-15 | 0.000203 | 0.00008 | 0.015 | n/a | No | 8 | 0.0001732 | 0.00005526 | 75 | None | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-16D | 0.000873 | 0.00016 | 0.015 | n/a | No | 8 | 0.0002814 | 0.0002395 | 75 | None | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-17 | 0.000203 | 0.000175 | 0.015 | n/a | No | 8 | 0.0001995 | 0.00009899 | 87.5 | None | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-6D | 0.000203 | 0.000171 | 0.015 | n/a | No | 8 | 0.000199 | 0.00001131 | 87.5 | None | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-7 | 0.003118 | 0.0003653 | 0.015 | n/a | No | 8 | 0.001742 | 0.001299 | 12.5 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-12 | 0.0631 | 0.0249 | 0.0809 | n/a | No | 8 | 0.03593 | 0.0141 | 0 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | GS-AP-MW-12V | 0.05243 | 0.03057 | 0.0809 | n/a | No | 8 | 0.0415 | 0.01031 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-15 | 0.5427 | 0.2753 | 0.0809 | n/a | Yes | 8 | 0.409 | 0.1262 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-15V | 0.1812 | 0.0665 | 0.0809 | n/a | No | 6 | 0.1199 | 0.04582 | 0 | None | sqrt(x) | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-16D | 0.03646 | 0.03302 | 0.0809 | n/a | No | 8 | 0.03474 | 0.001621 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-17 | 0.06643 | 0.05759 | 0.0809 | n/a | No | 8 | 0.06201 | 0.00417 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-19 | 0.04394 | 0.03165 | 0.0809 | n/a | No | 8 | 0.03785 | 0.006209 | 0 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-2 | 0.04572 | 0.03596 | 0.0809 | n/a | No | 8 | 0.04084 | 0.004604 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21 | 0.3299 | 0.1162 | 0.0809 | n/a | Yes | 8 | 0.2231 | 0.1008 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21V | 0.1559 | 0.04994 | 0.0809 | n/a | No | 6 | 0.1029 | 0.03855 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-3 | 0.1137 | 0.0516 | 0.0809 | n/a | No | 4 | 0.08268 | 0.01369 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-6D | 0.3311 | 0.2714 | 0.0809 | n/a | Yes | 8 | 0.3013 | 0.0282 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-7 | 0.2109 | 0.1488 | 0.0809 | n/a | Yes | 8 | 0.1799 | 0.02929 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-9V | 0.03109 | 0.02871 | 0.0809 | n/a | No | 6 | 0.0299 | 0.0008649 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-12 | 0.009401 | 0.004536 | 0.1 | n/a | No | 8 | 0.00661 | 0.002496 | 25 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-12V | 0.006133 | 0.001371 | 0.1 | n/a | No | 8 | 0.003658 | 0.002624 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-15 | 0.07173 | 0.04351 | 0.1 | n/a | No | 8 | 0.05699 | 0.01728 | 0 | None | x^3 | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-15V | 0.0538 | 0.0272 | 0.1 | n/a | No | 6 | 0.03775 | 0.01196 | 0 | None | No | 0.0155 | NP (normality) |
| Molybdenum (mg/L) | GS-AP-MW-16D | 0.005 | 0.00014 | 0.1 | n/a | No | 8 | 0.002767 | 0.0024 | 50 | None | No | 0.004 | NP (normality) |
| Molybdenum (mg/L) | GS-AP-MW-17 | 0.008342 | 0.001451 | 0.1 | n/a | No | 8 | 0.004896 | 0.003251 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-19 | 0.006542 | 0.002851 | 0.1 | n/a | No | 8 | 0.004696 | 0.001741 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-2 | 0.005443 | 0.001553 | 0.1 | n/a | No | 8 | 0.003433 | 0.002083 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-21 | 0.08402 | 0.01394 | 0.1 | n/a | No | 8 | 0.04898 | 0.03306 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-21V | 0.1309 | 0.0383 | 0.1 | n/a | No | 6 | 0.08458 | 0.03369 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-3 | 0.01371 | 0.003731 | 0.1 | n/a | No | 4 | 0.008723 | 0.002199 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-6D | 0.01102 | 0.007972 | 0.1 | n/a | No | 8 | 0.009498 | 0.001439 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-7 | 0.2181 | 0.1856 | 0.1 | n/a | Yes | 8 | 0.2019 | 0.01533 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-9V | 0.002837 | 0.0006068 | 0.1 | n/a | No | 6 | 0.002815 | 0.001842 | 33.33 | Kaplan-Meier | No | 0.01 | Param. |

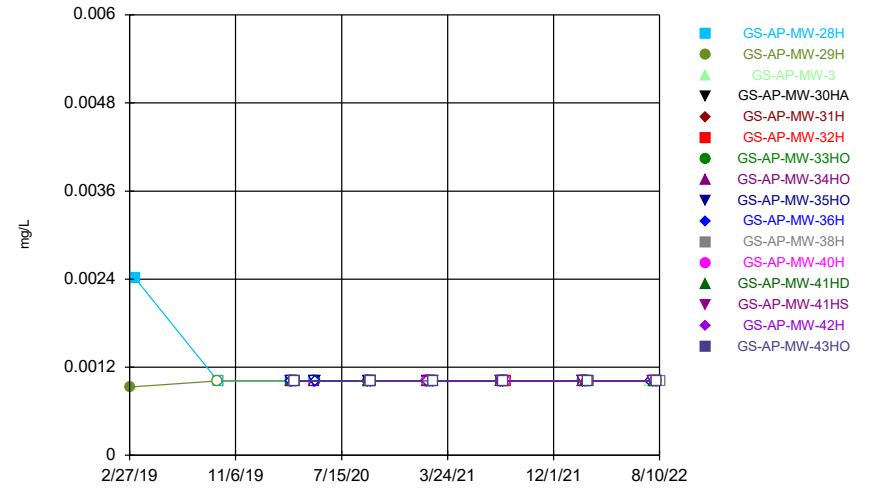
FIGURE A.

Time Series



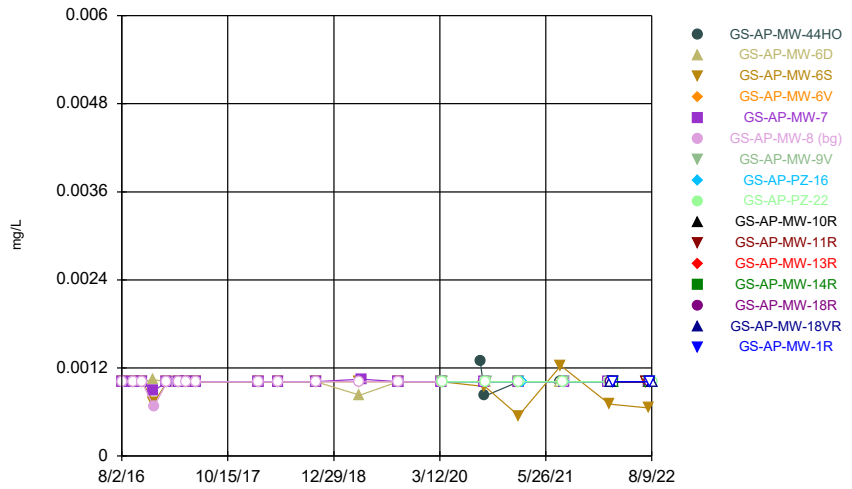
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Time Series



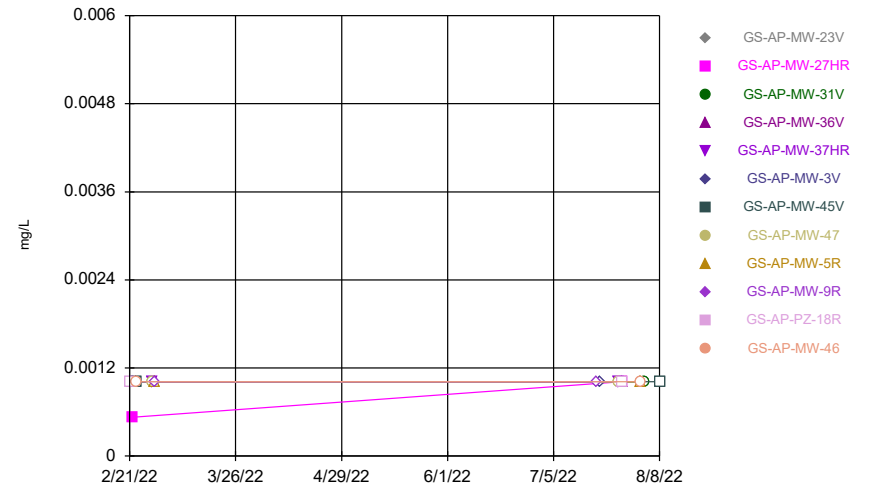
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Time Series



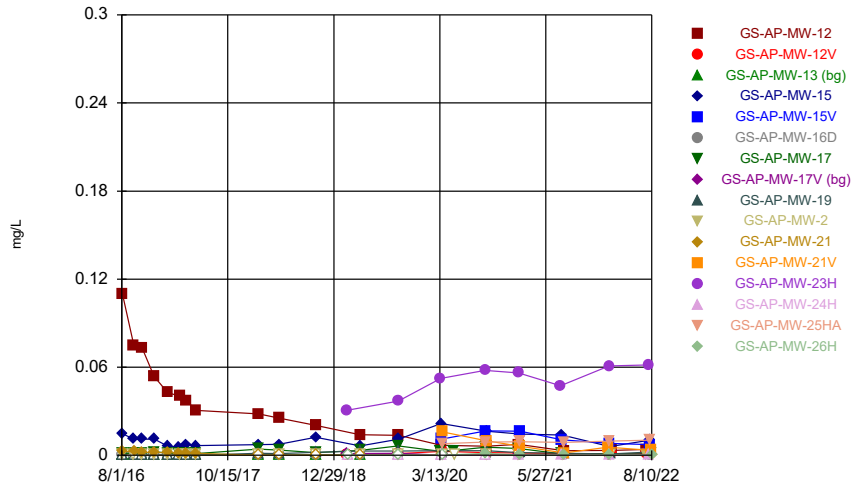
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Time Series



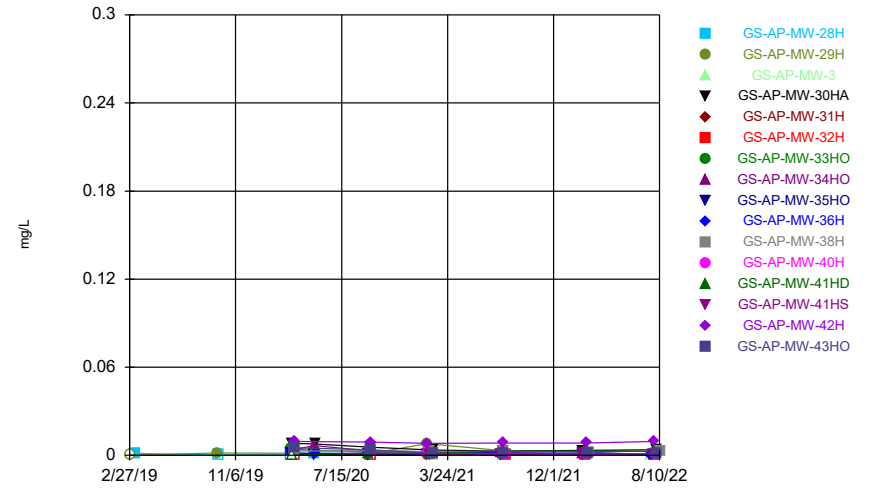
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Time Series



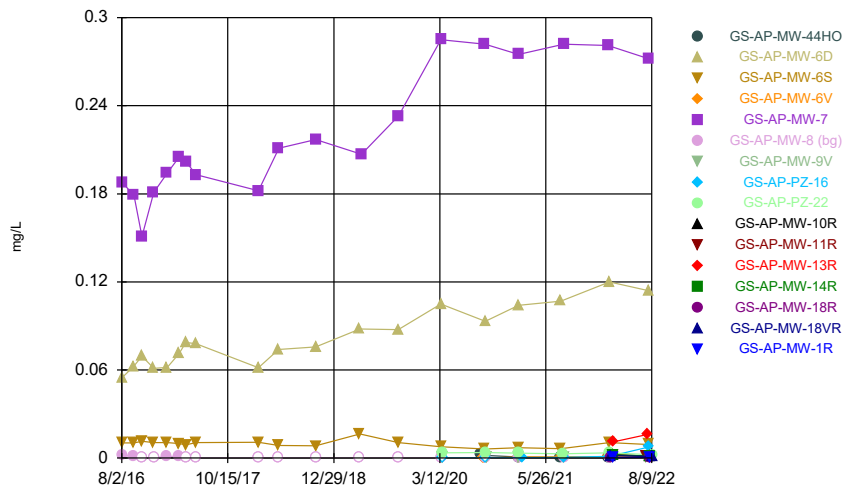
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Time Series



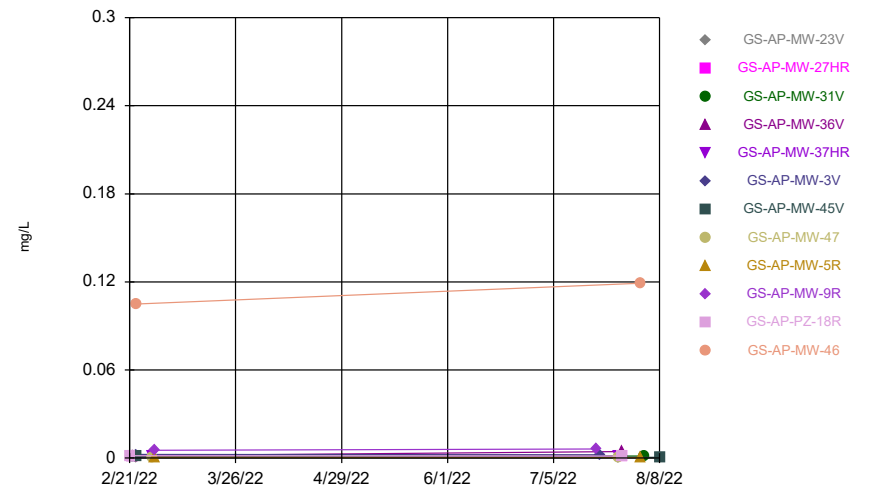
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Time Series



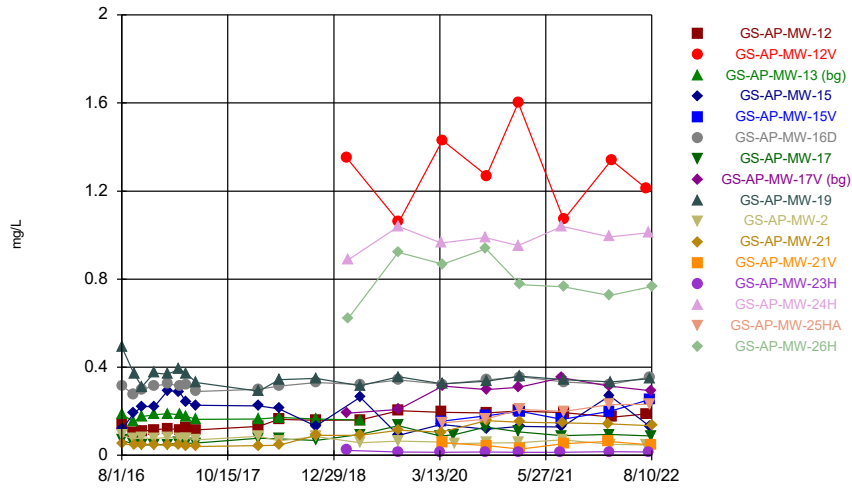
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Time Series



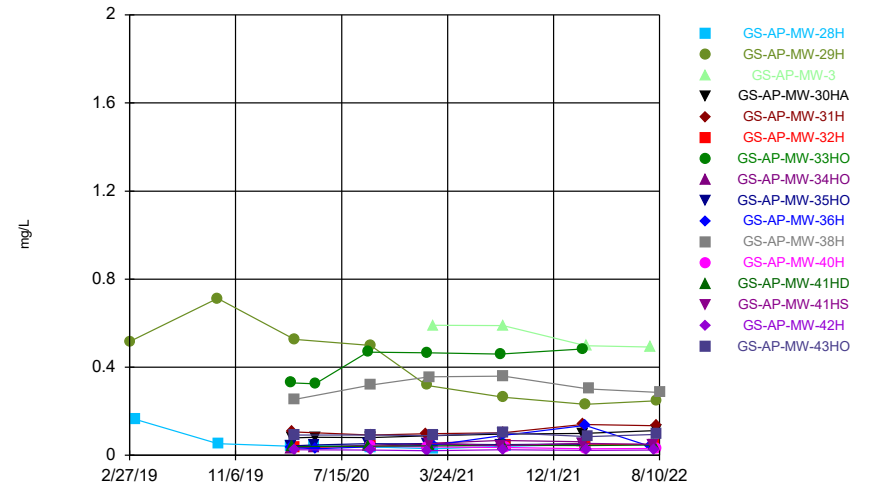
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Time Series



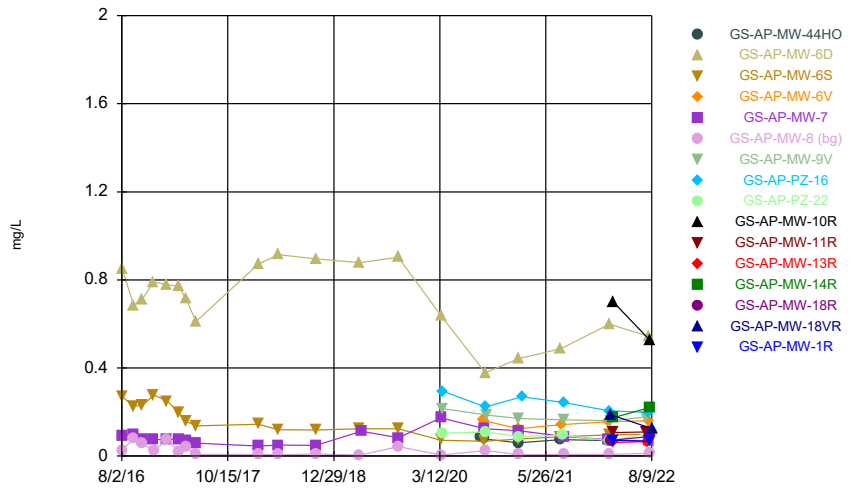
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



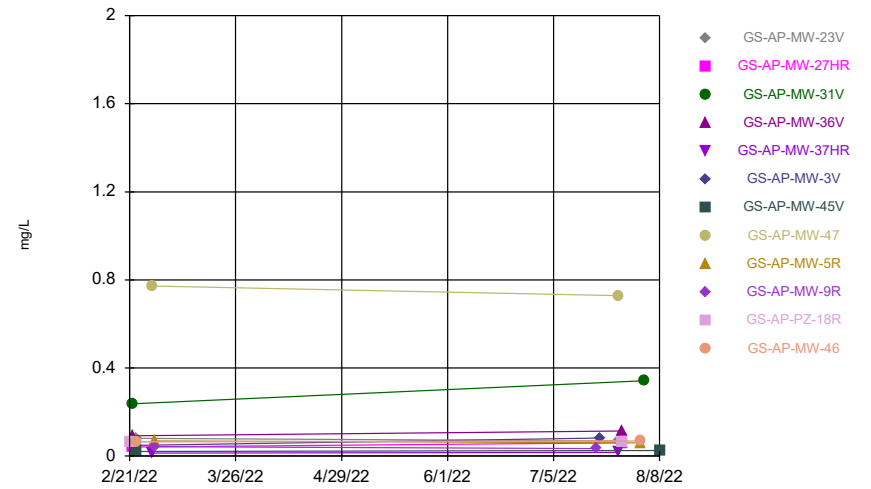
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



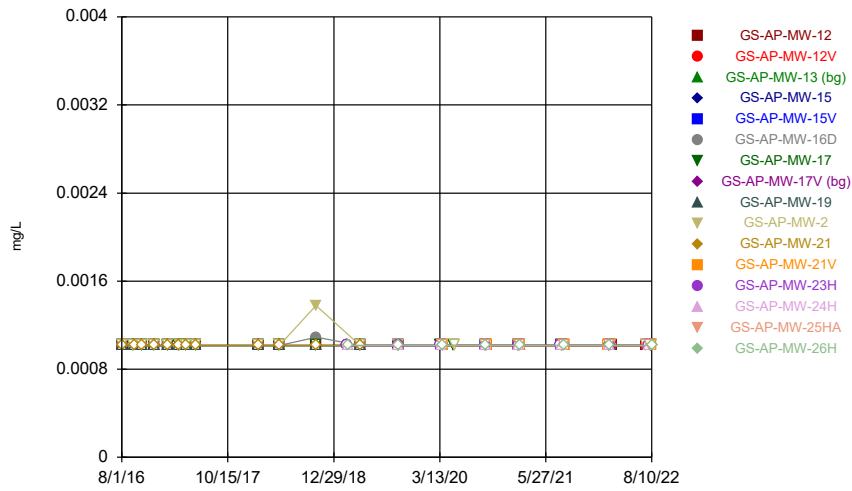
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



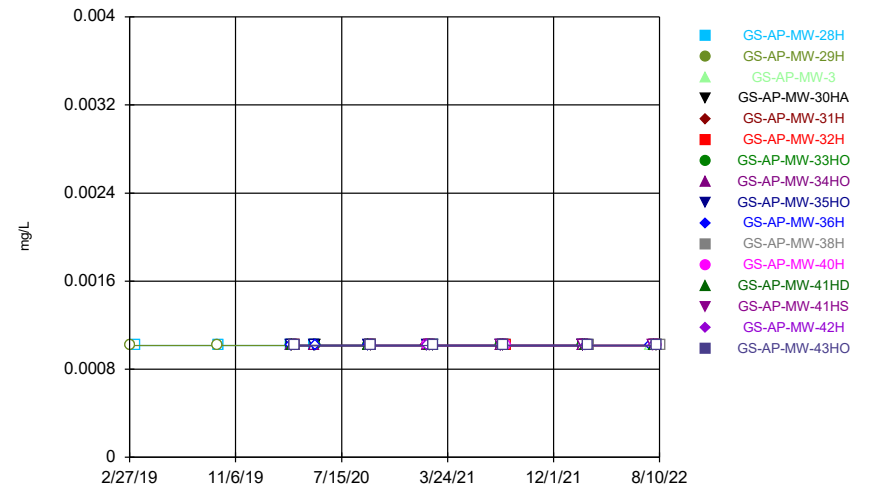
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



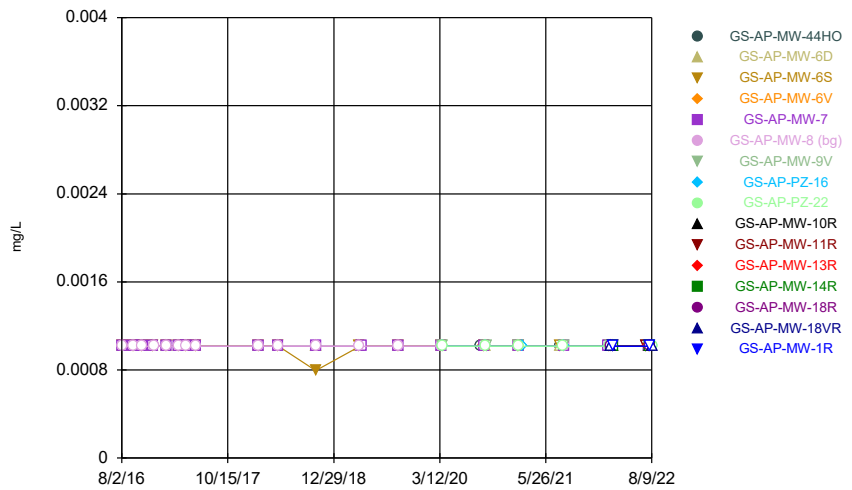
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



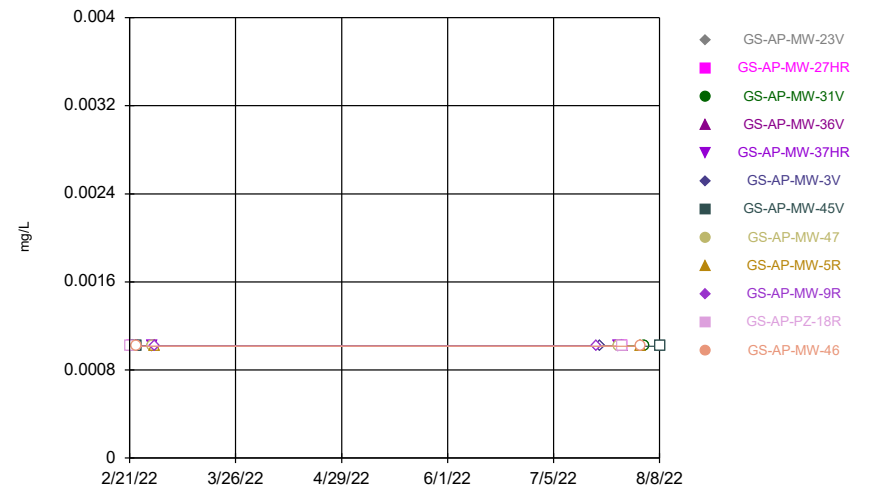
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



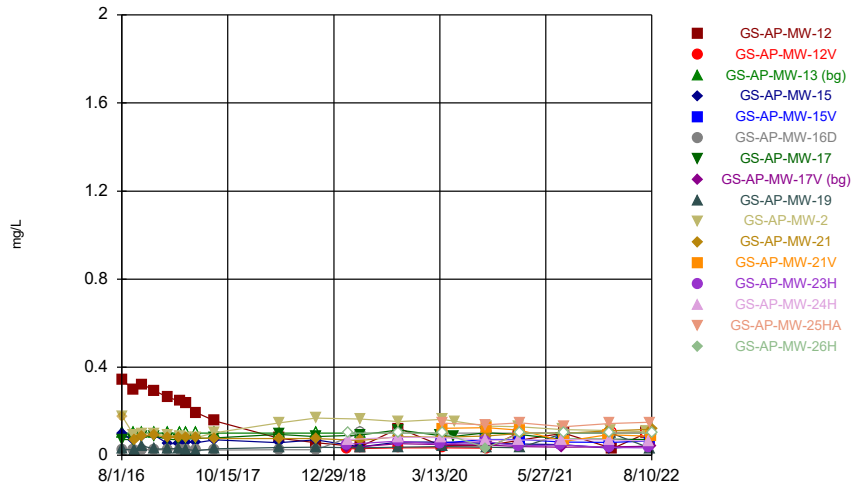
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



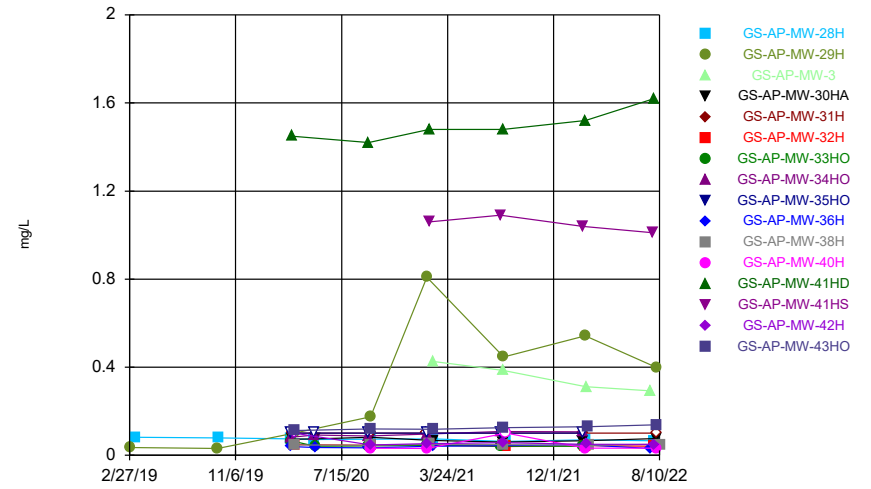
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



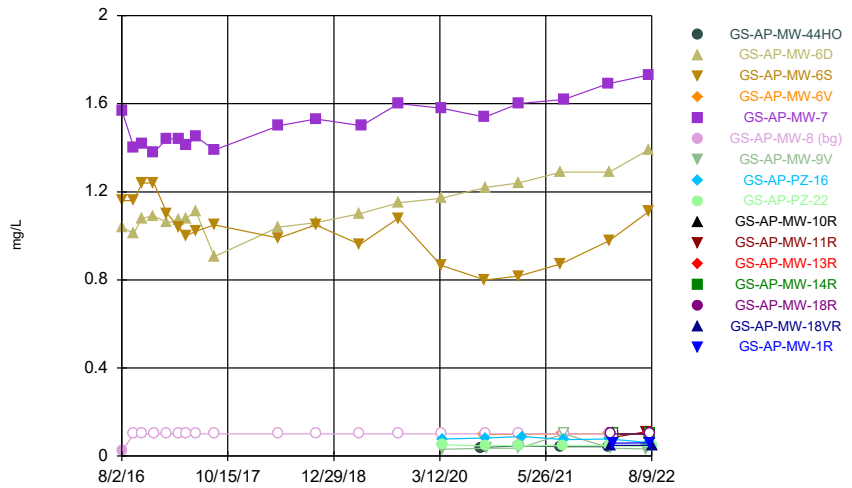
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



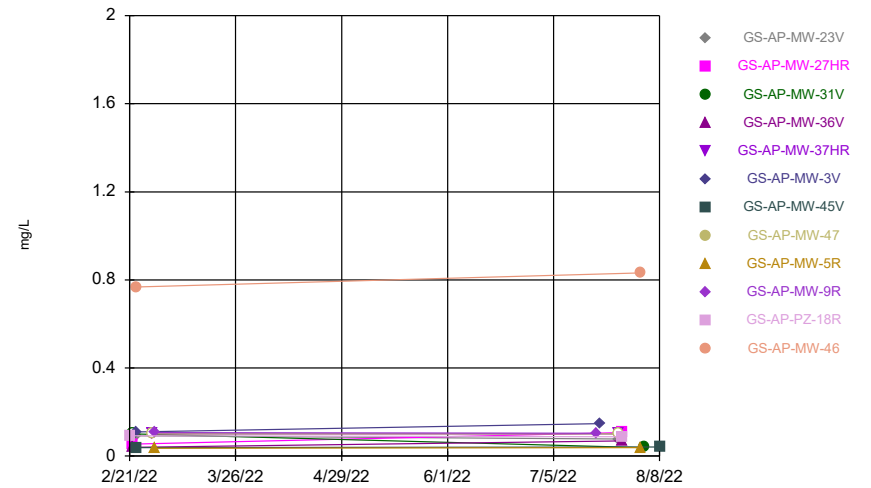
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



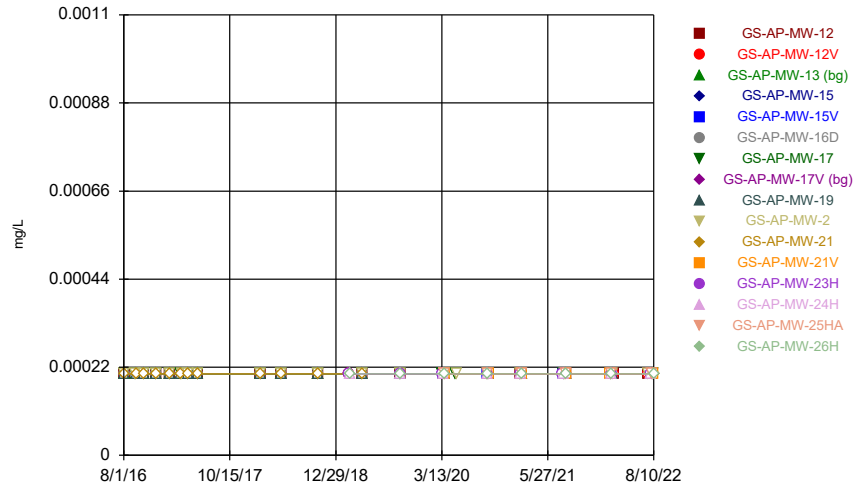
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



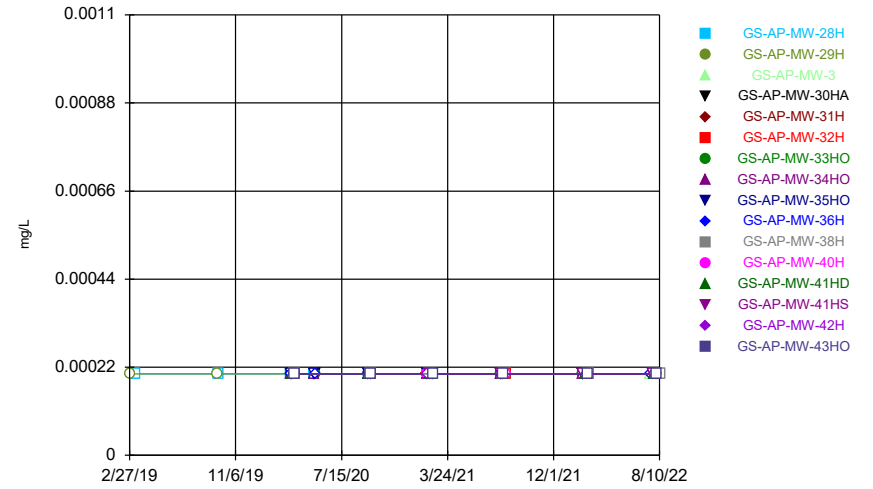
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



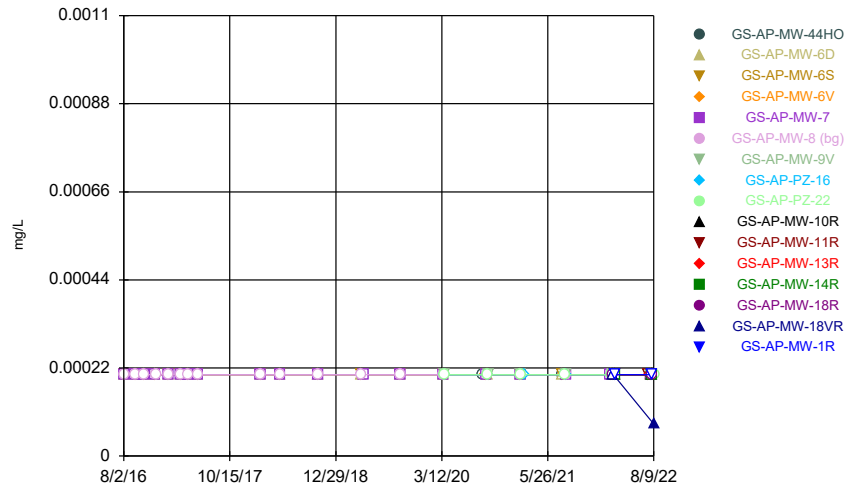
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



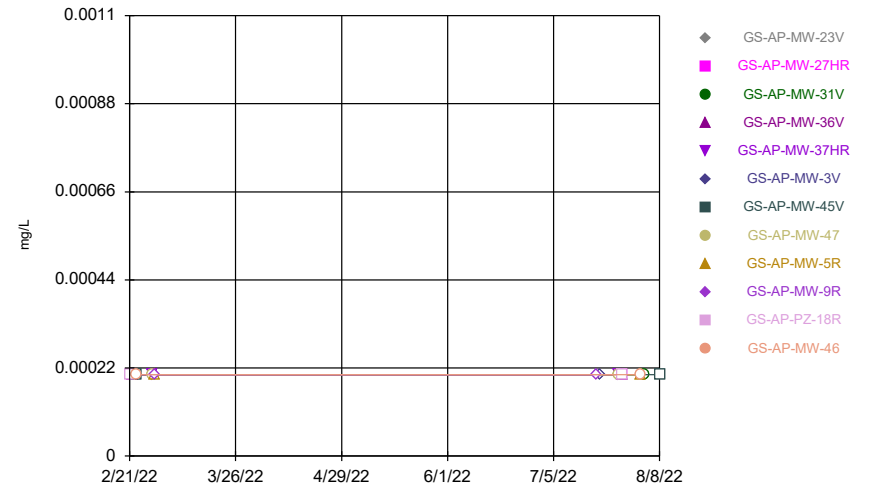
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



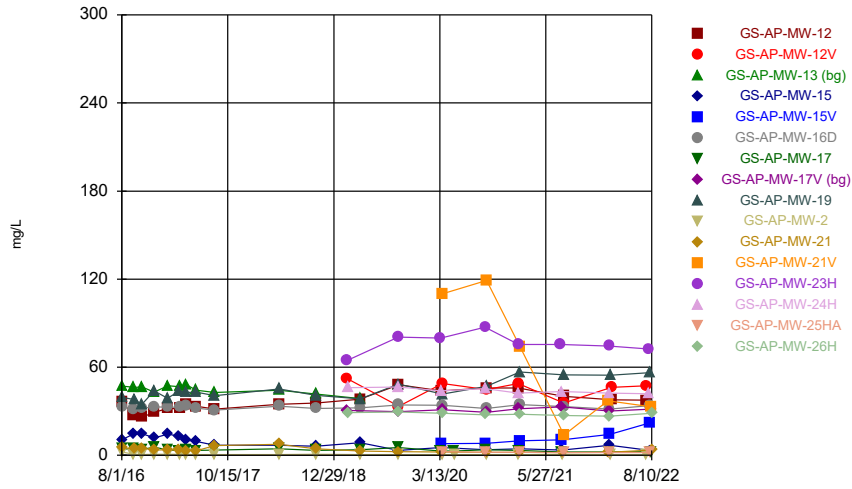
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



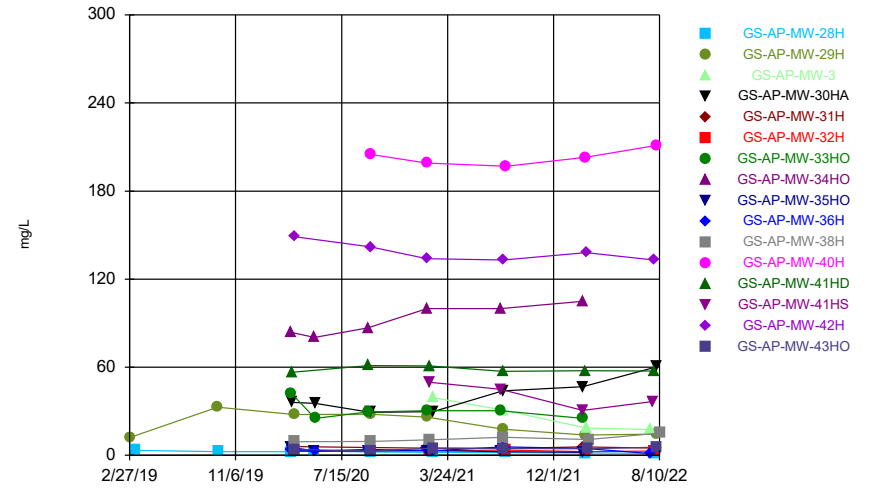
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



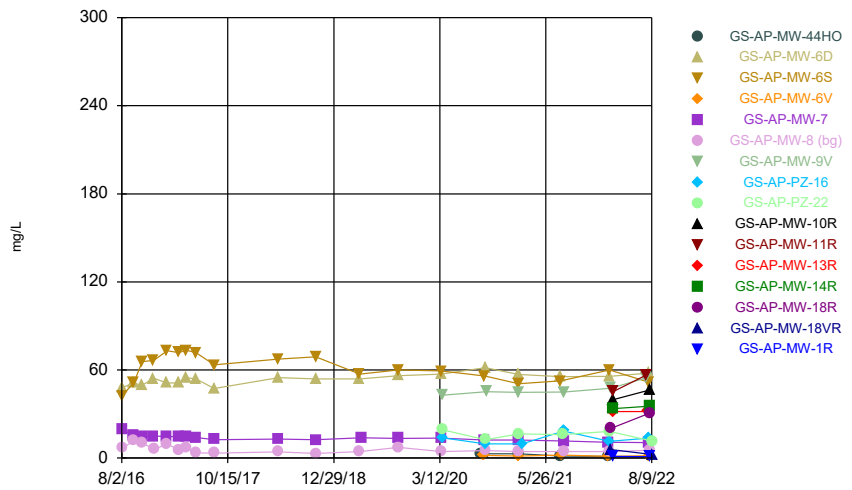
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



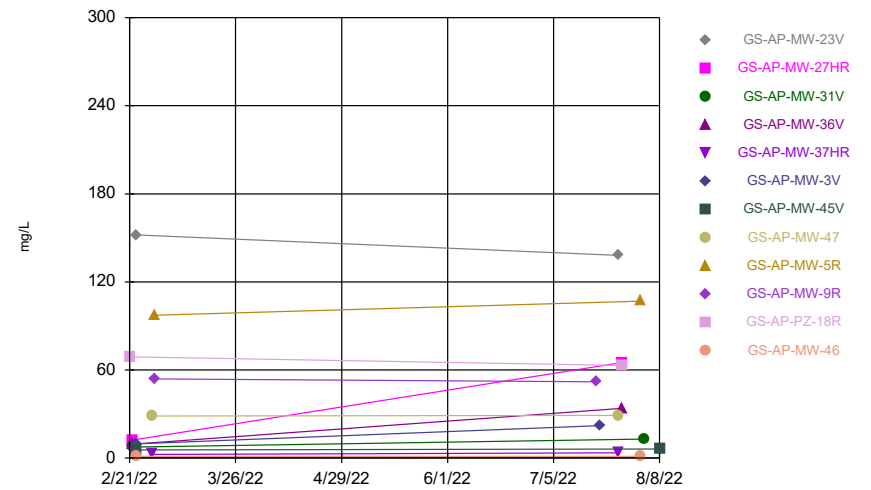
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



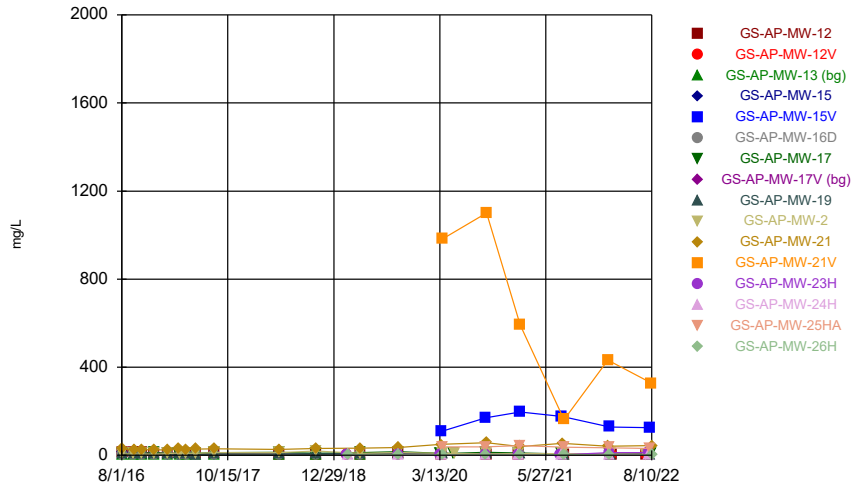
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Time Series



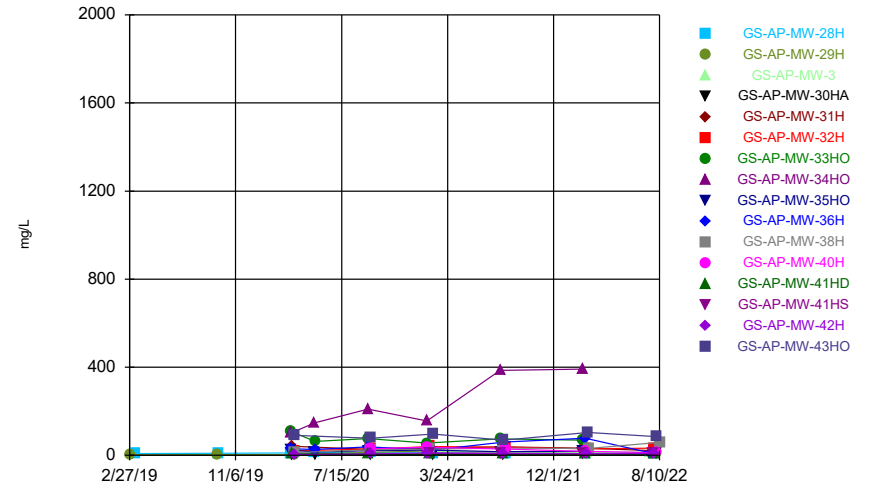
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



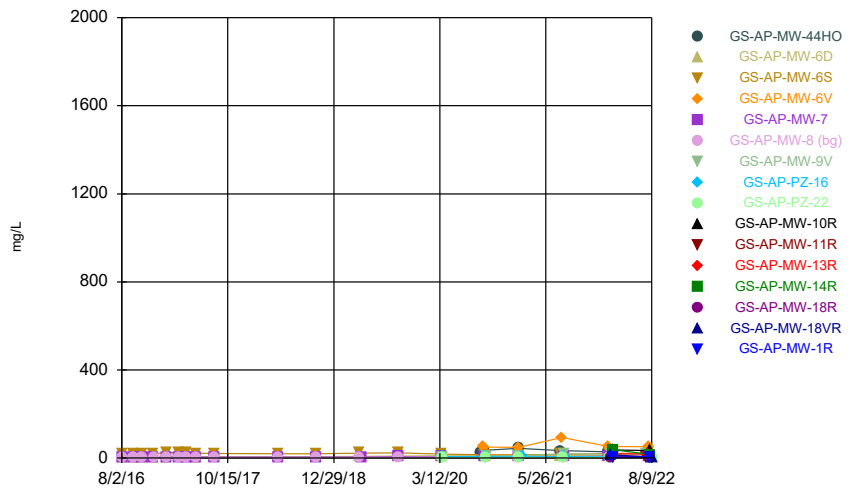
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



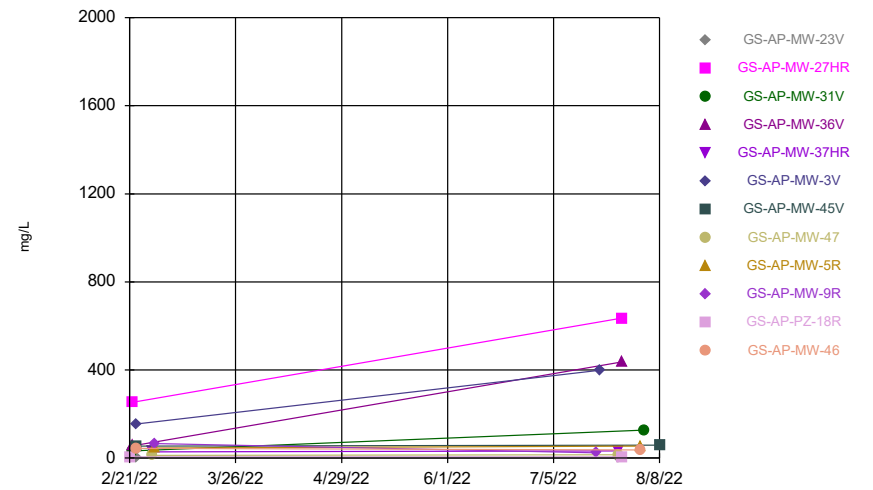
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



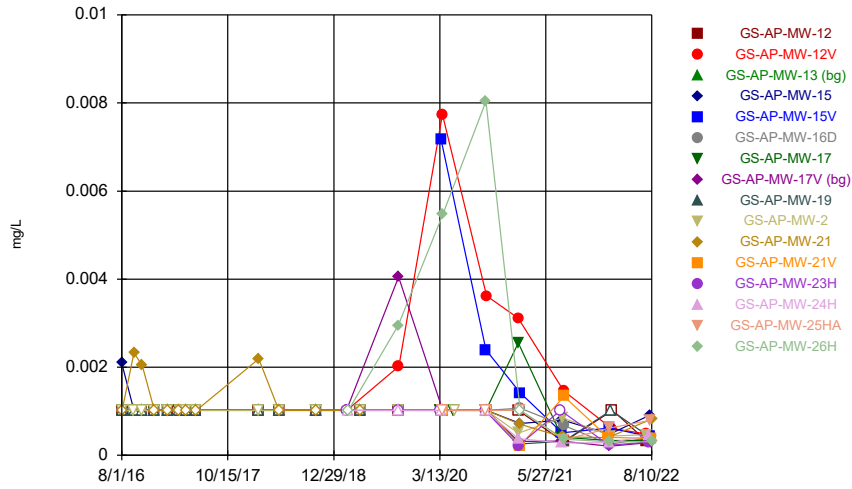
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



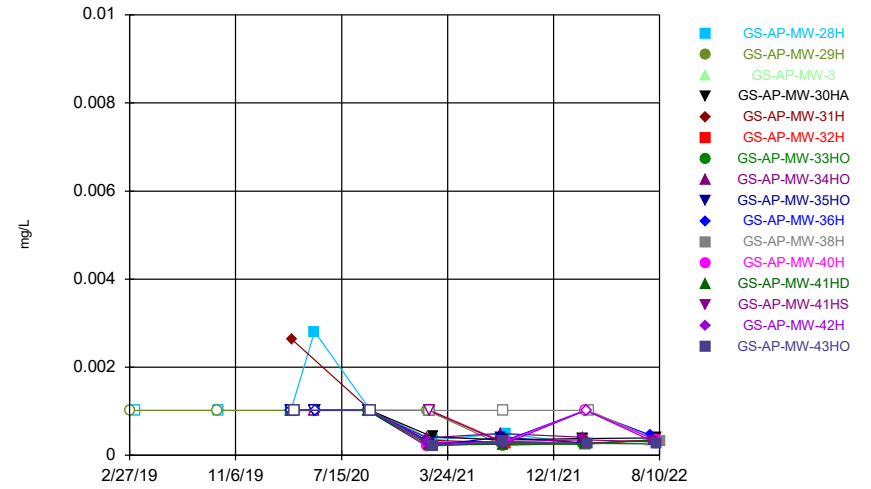
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



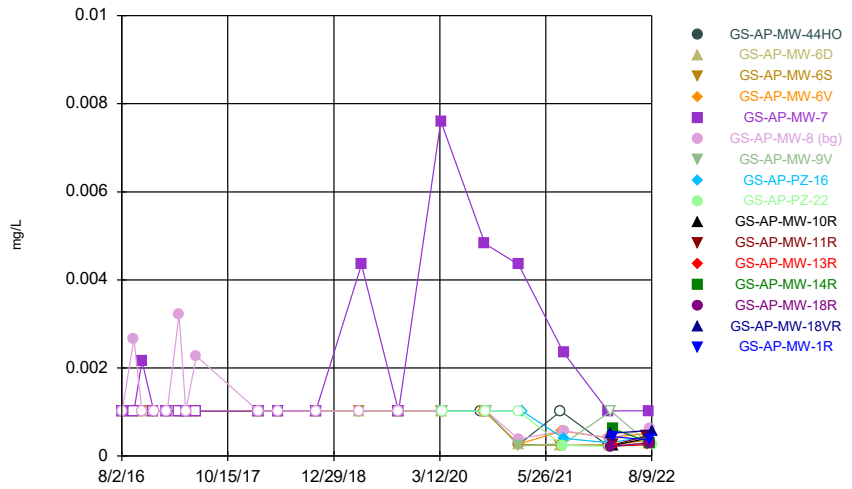
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



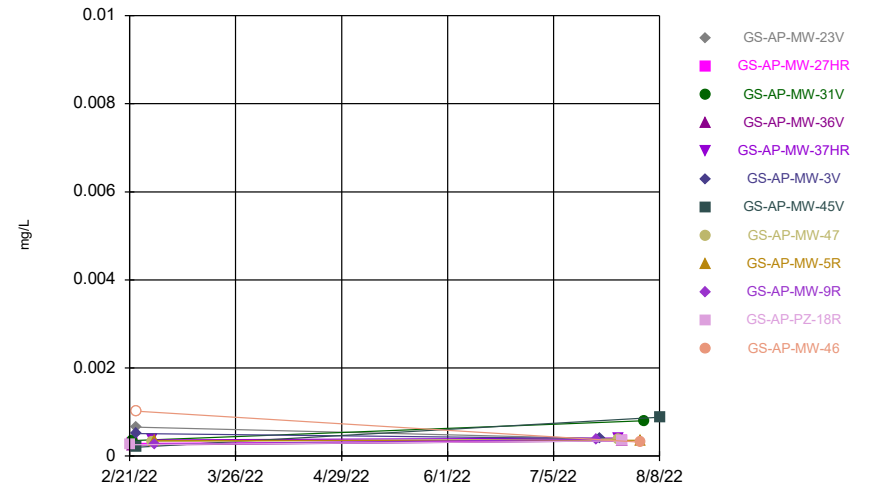
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



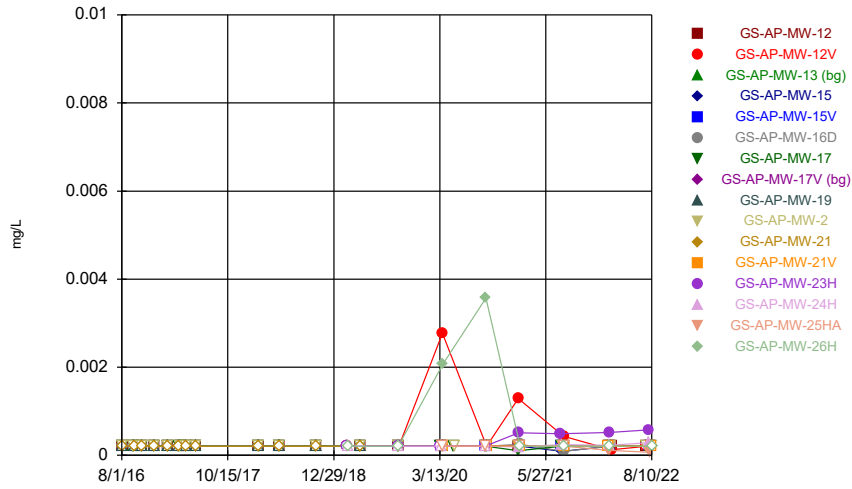
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Time Series



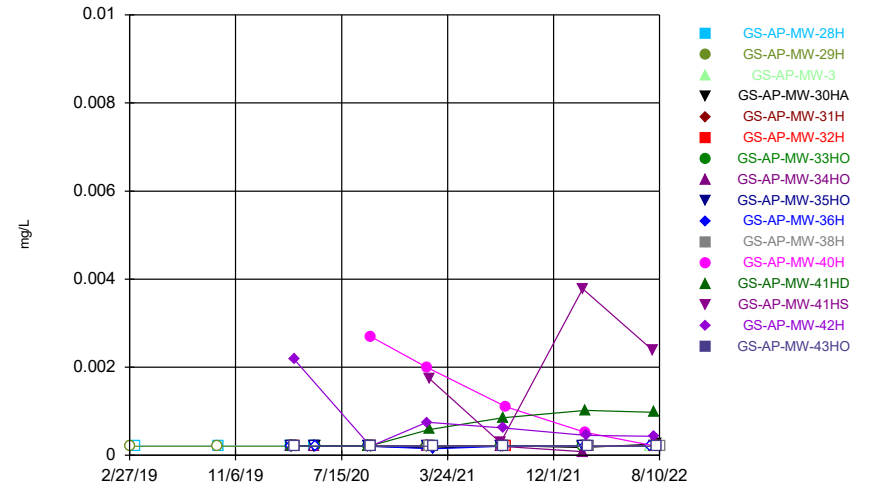
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Time Series



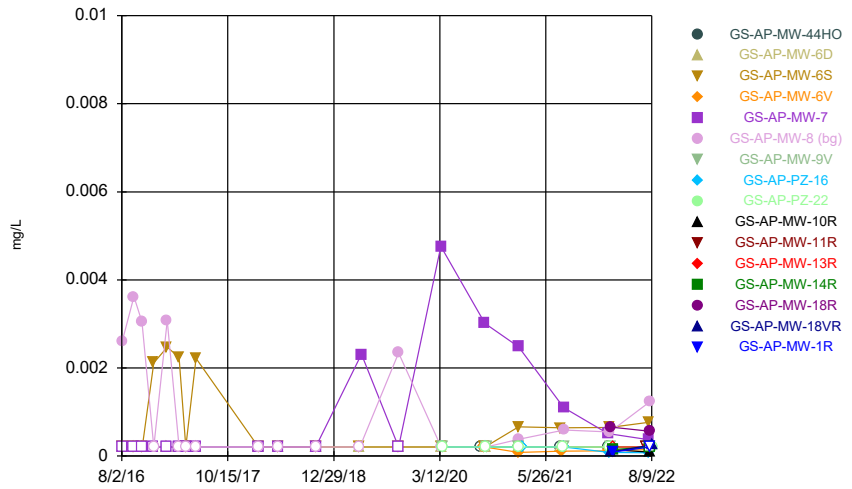
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



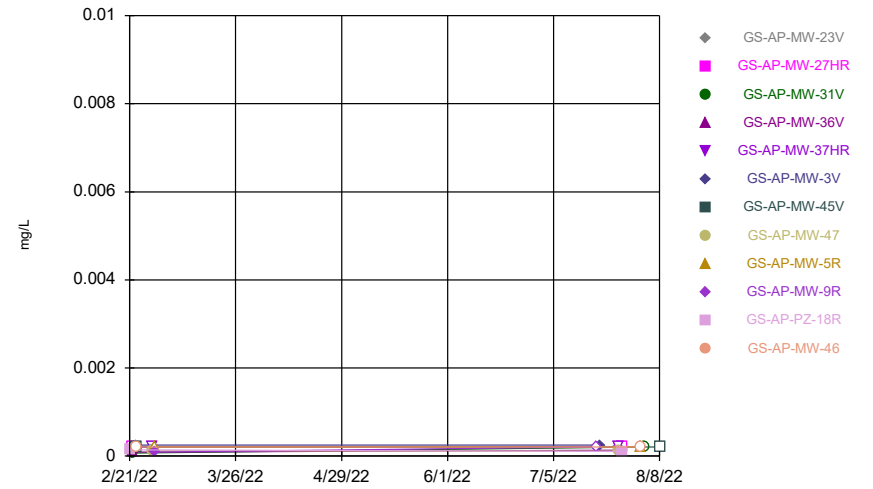
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



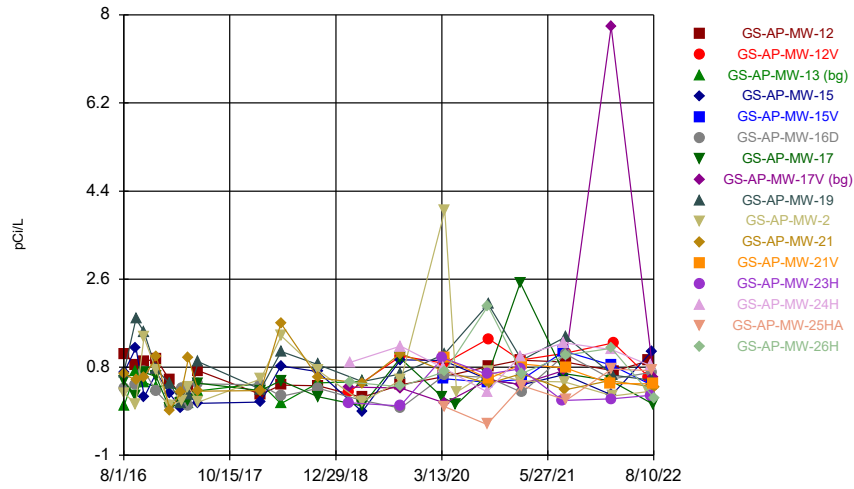
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



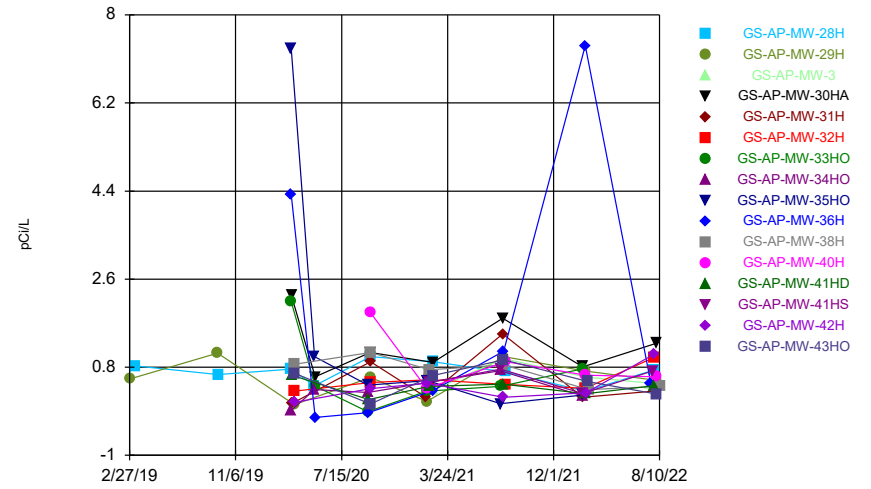
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



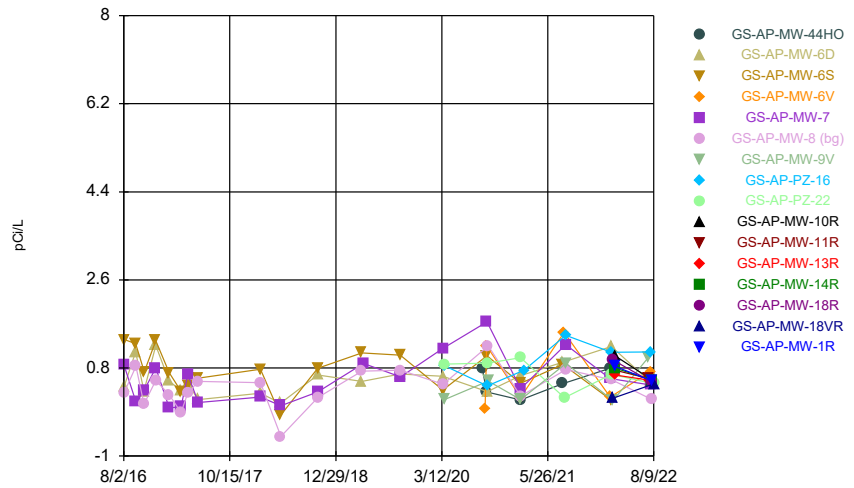
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



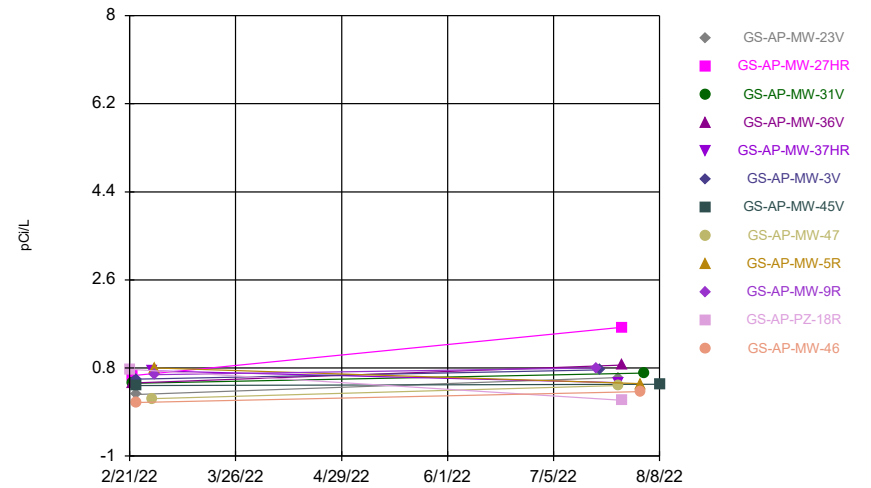
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



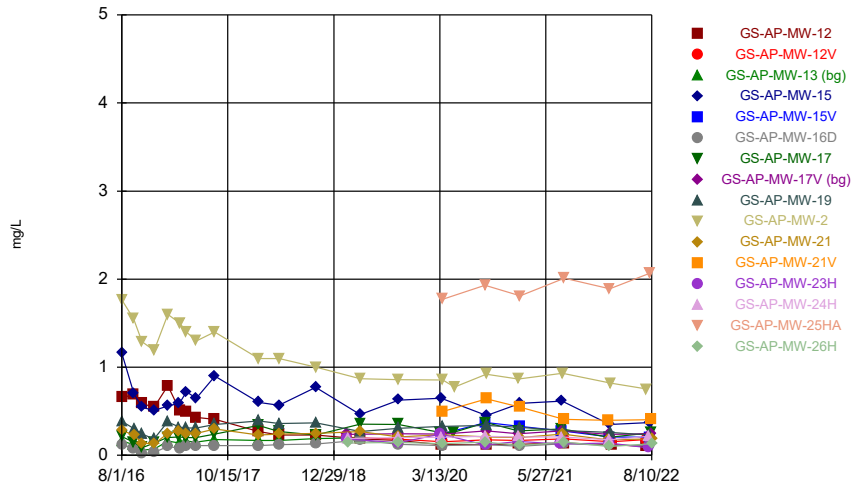
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 3:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

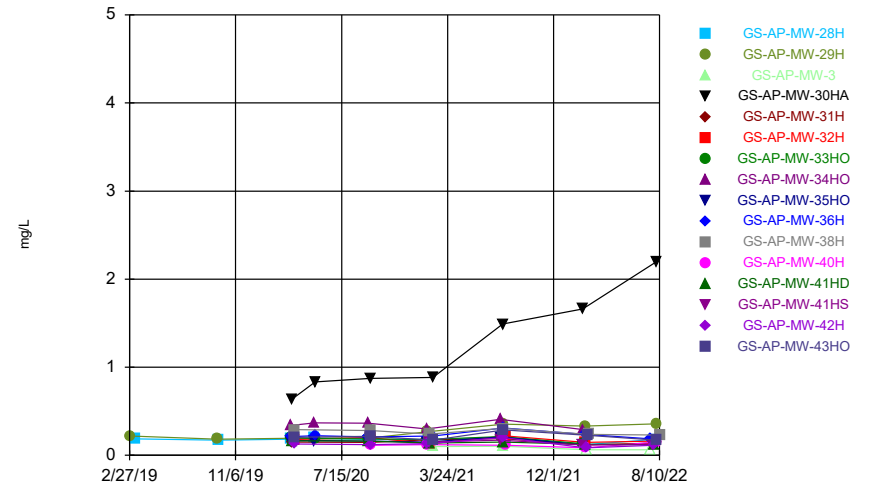
Time Series



Constituent: Fluoride Analysis Run 10/6/2022 3:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Hollow symbols indicate censored values.

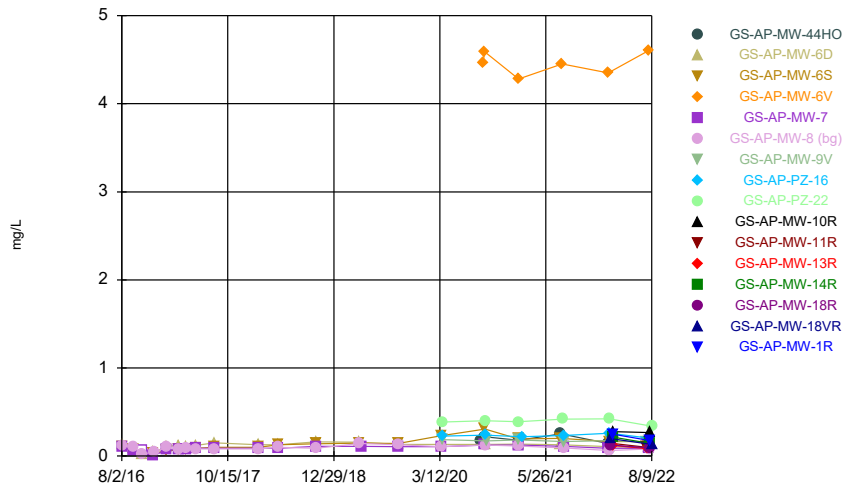
Time Series



Constituent: Fluoride Analysis Run 10/6/2022 3:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

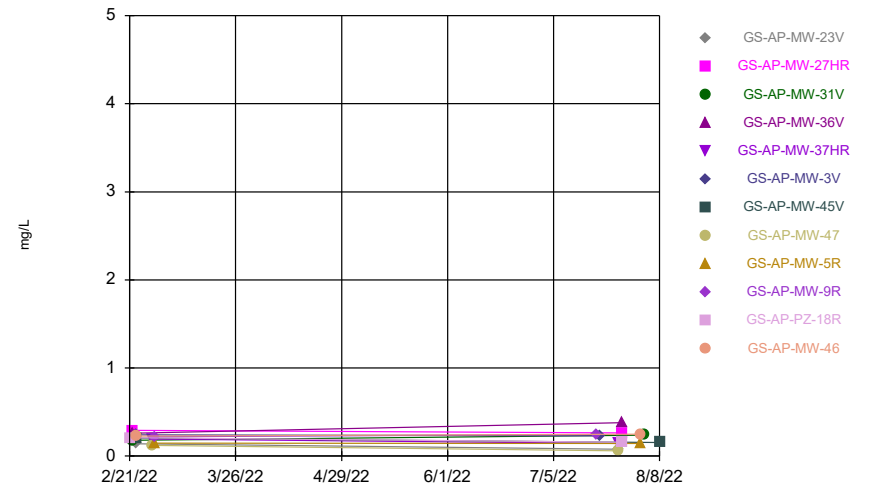
Hollow symbols indicate censored values.

Time Series



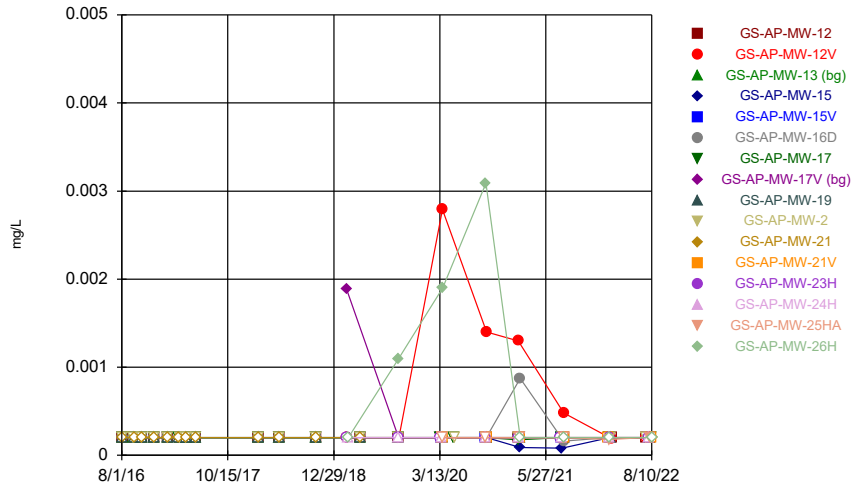
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



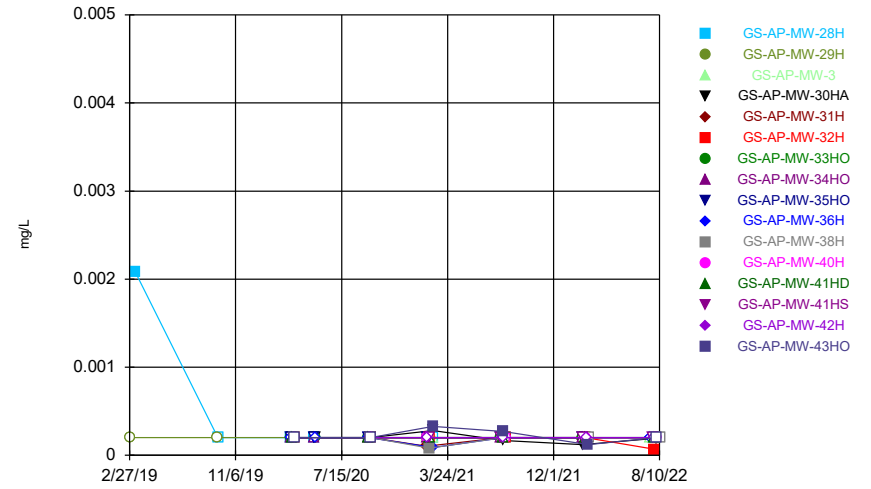
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Time Series



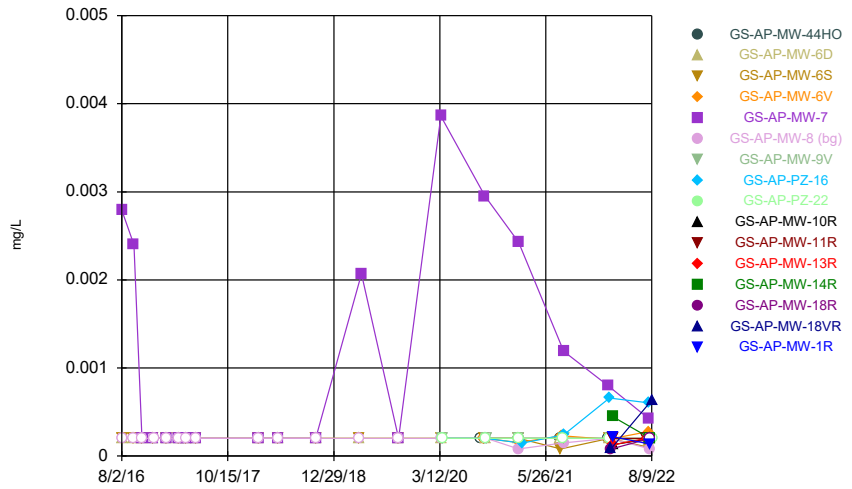
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



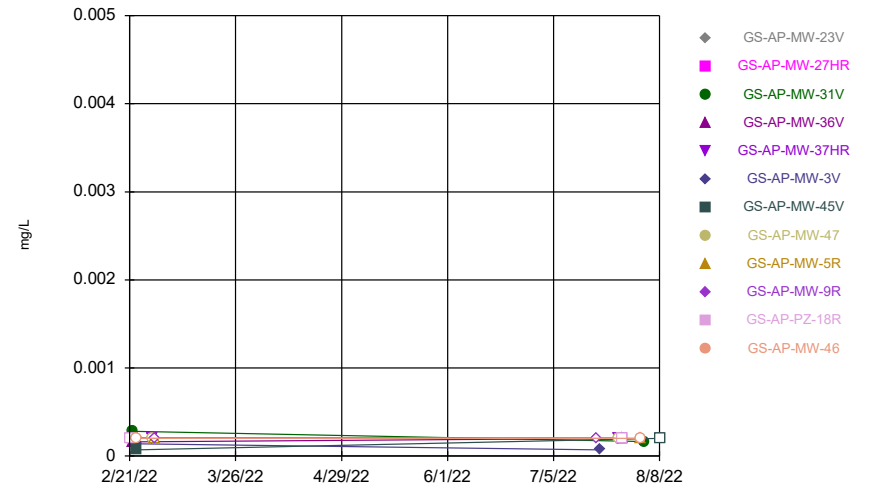
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



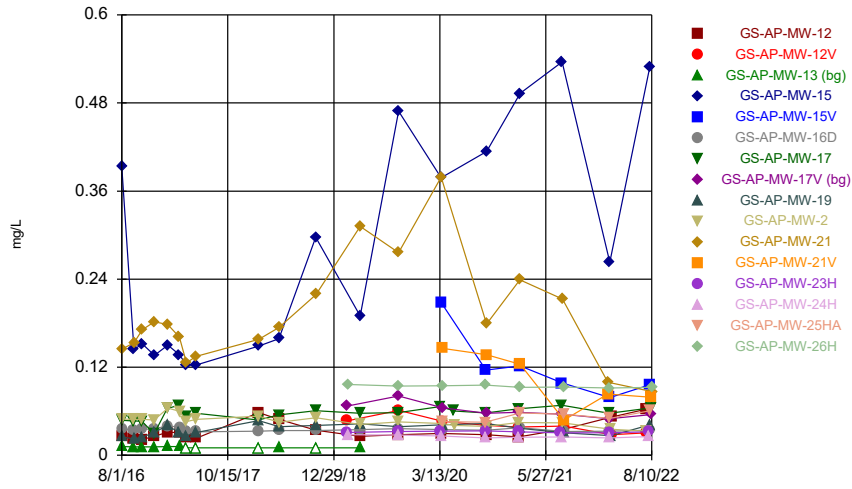
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



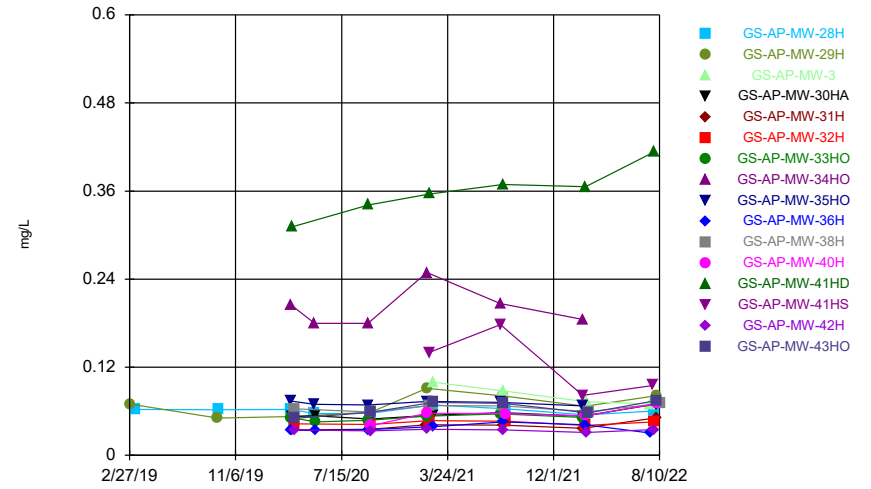
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



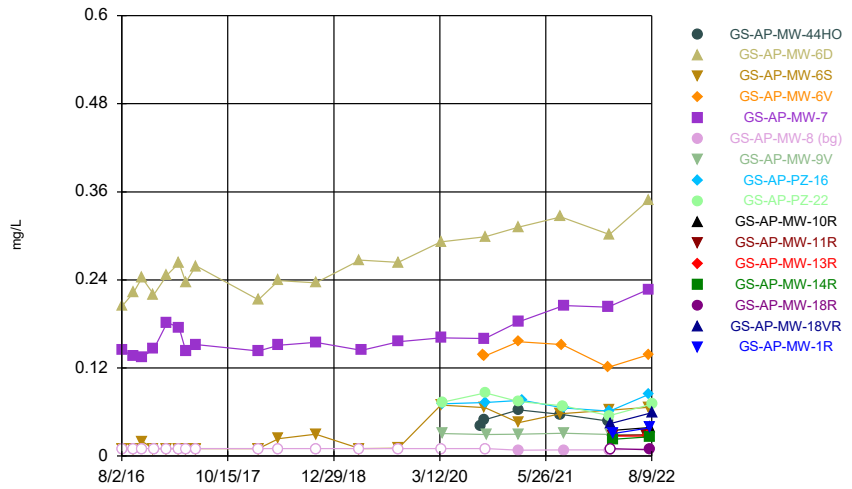
Constituent: Lithium Analysis Run 10/6/2022 3:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



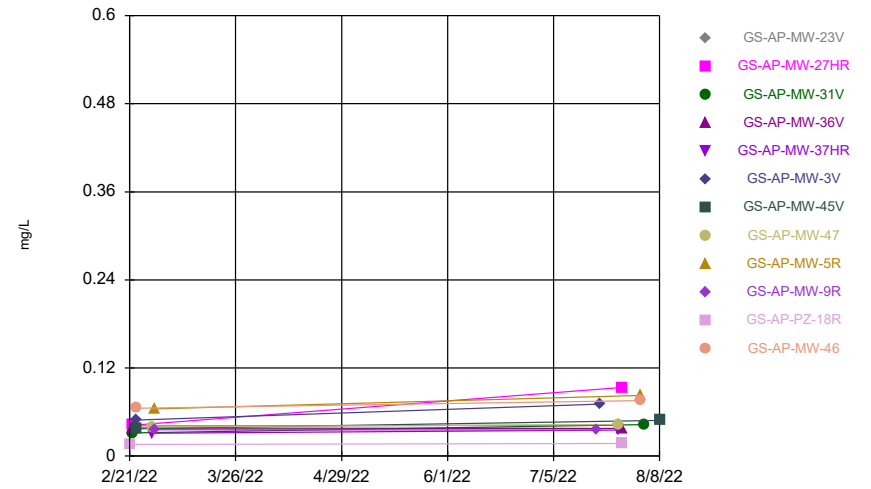
Constituent: Lithium Analysis Run 10/6/2022 3:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



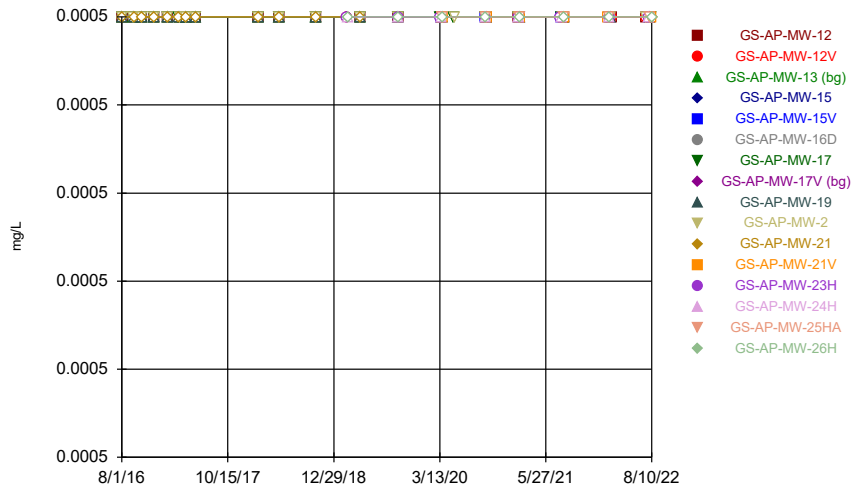
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



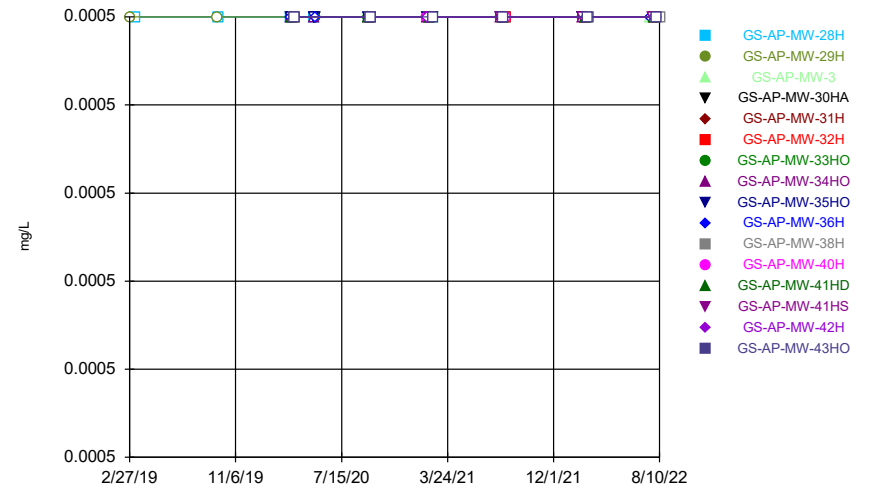
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



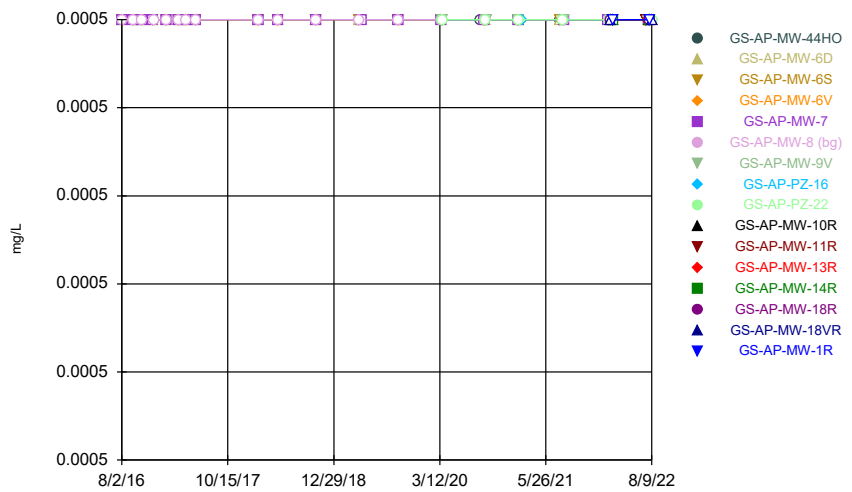
Constituent: Mercury Analysis Run 10/6/2022 3:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



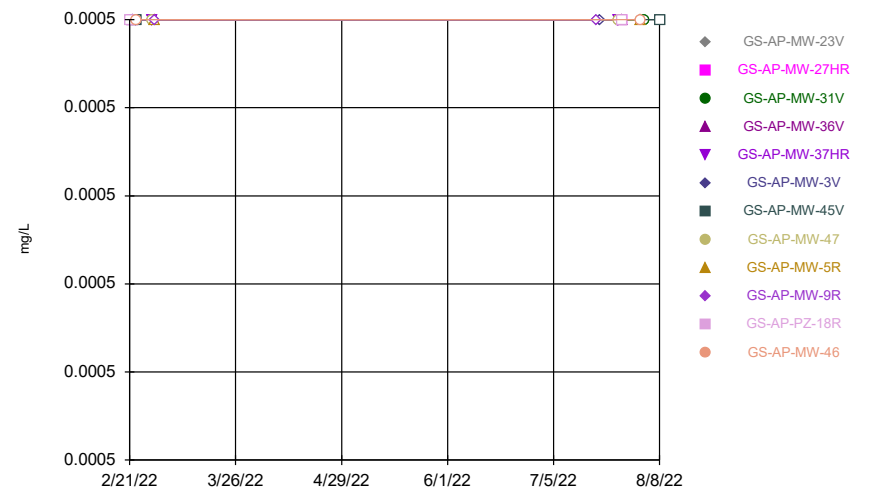
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



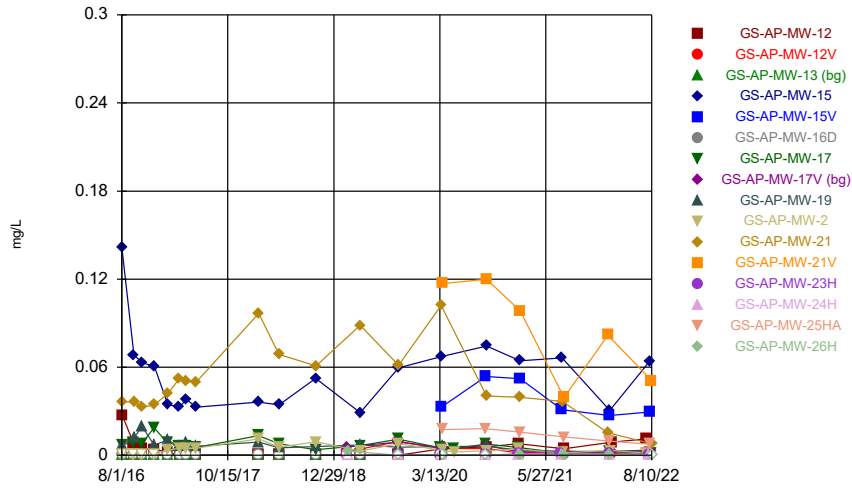
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series

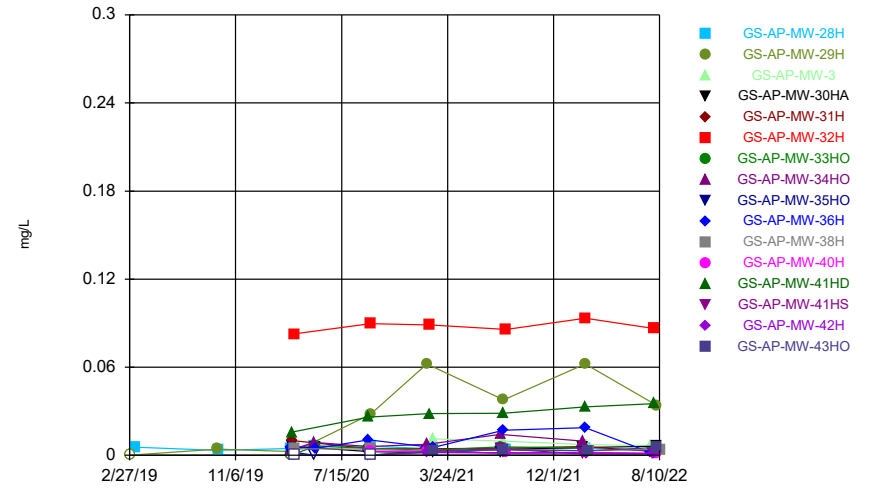


Constituent: Mercury Analysis Run 10/6/2022 3:07 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

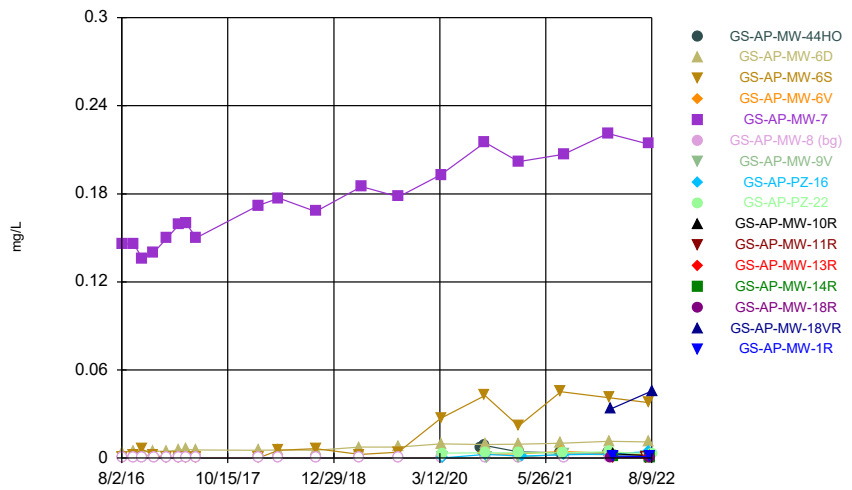
Time Series



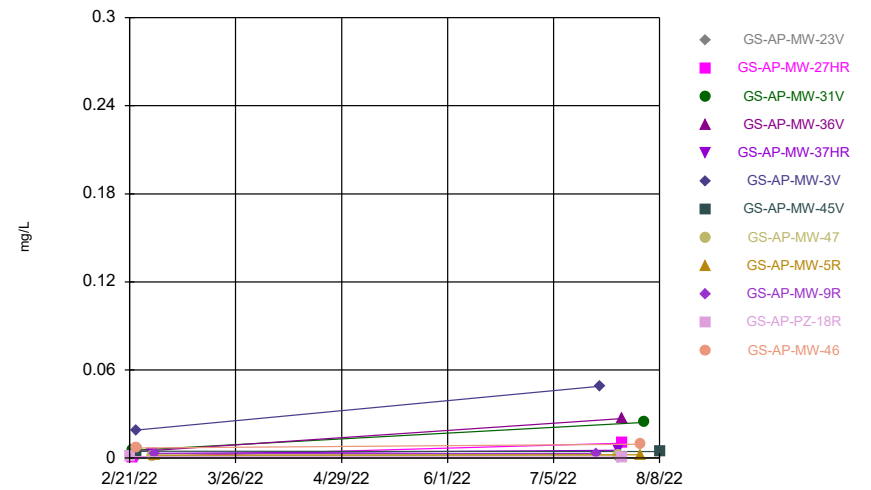
Time Series



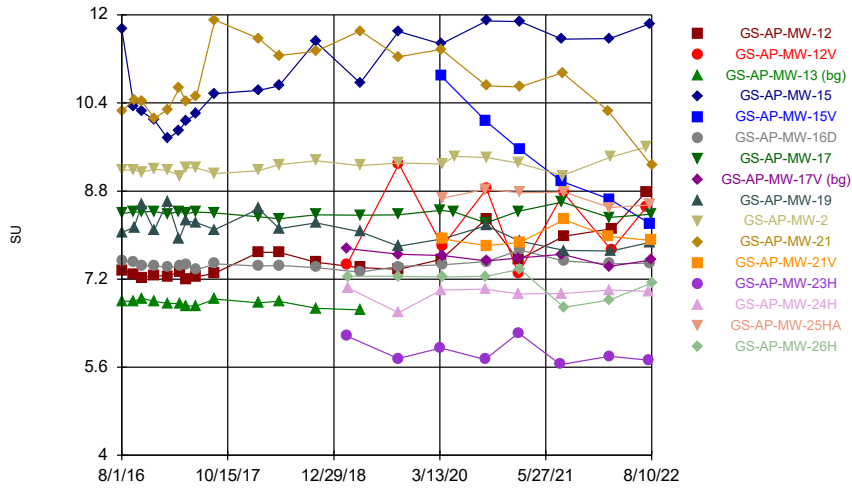
Time Series



Time Series

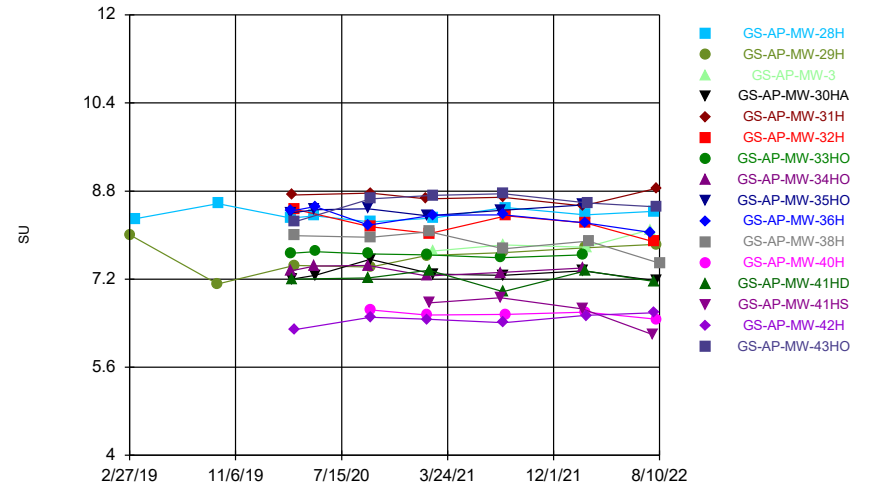


Time Series



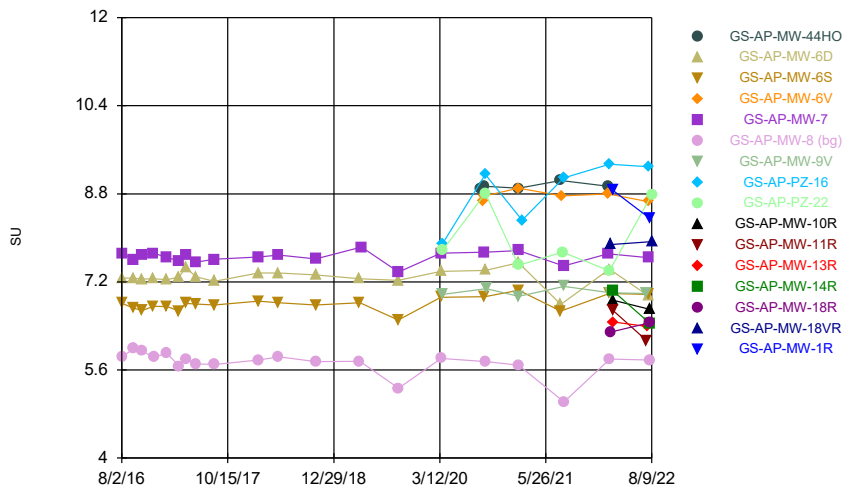
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



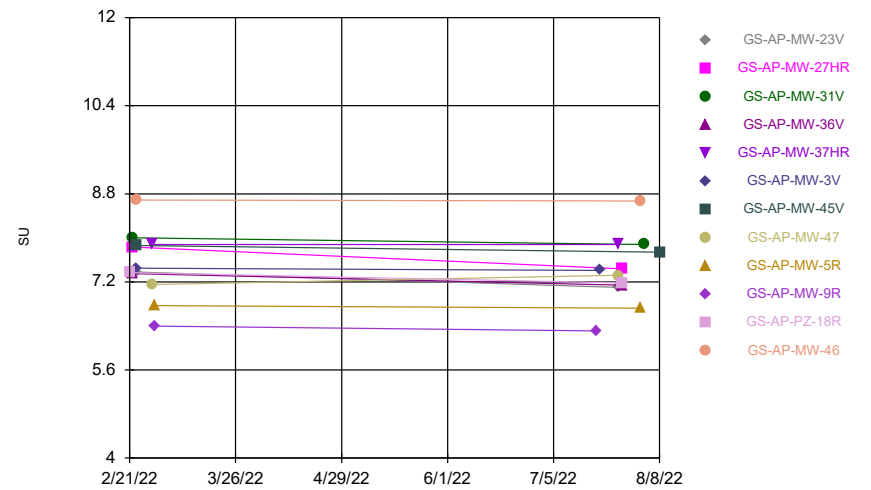
Constituent: pH Analysis Run 10/6/2022 3:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



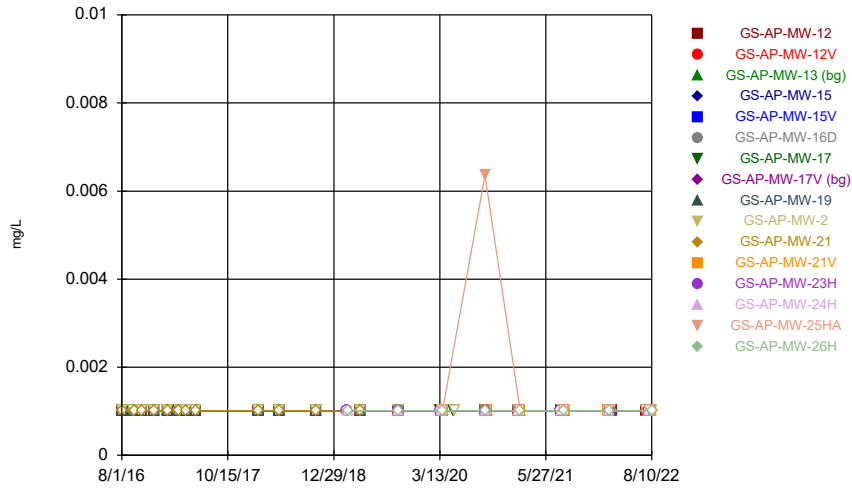
Constituent: pH Analysis Run 10/6/2022 3:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series

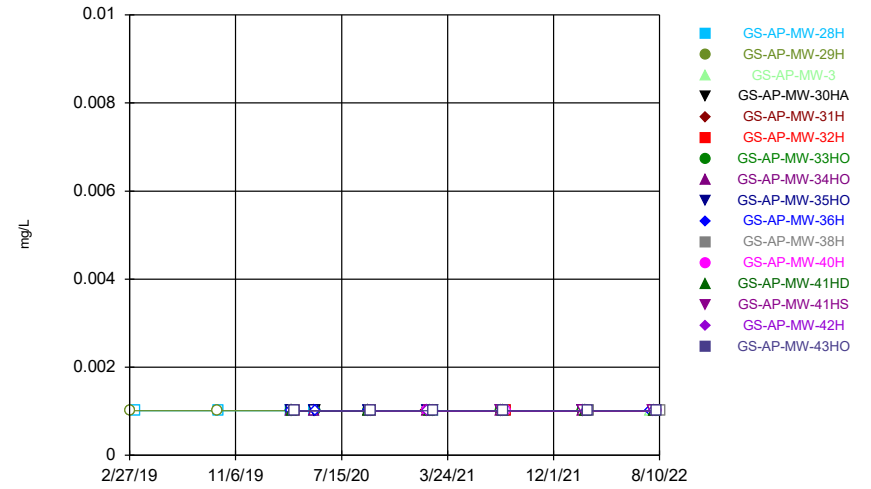


Constituent: pH Analysis Run 10/6/2022 3:08 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

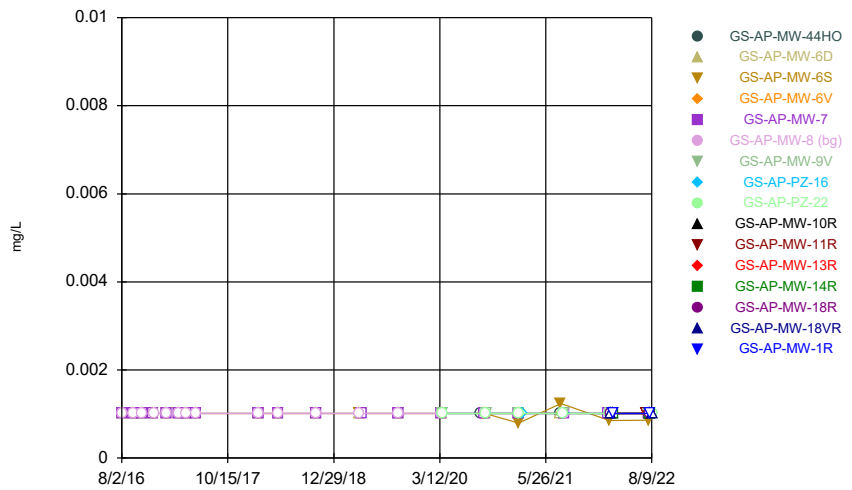
Time Series



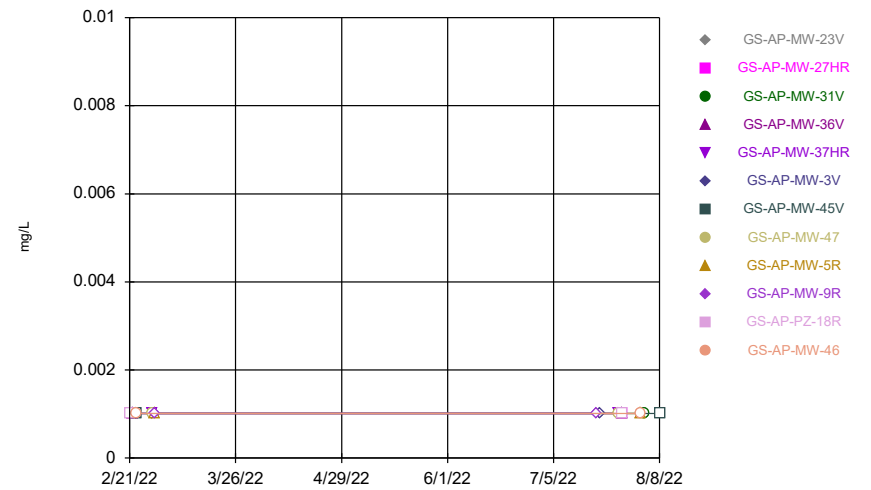
Time Series



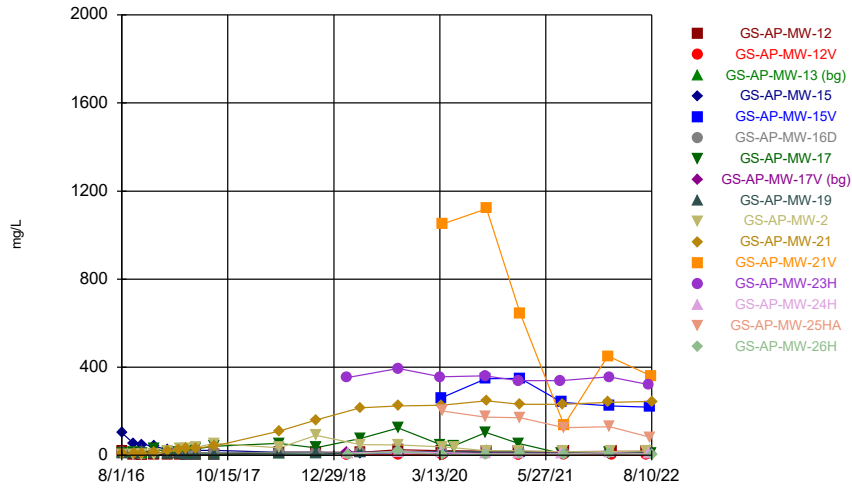
Time Series



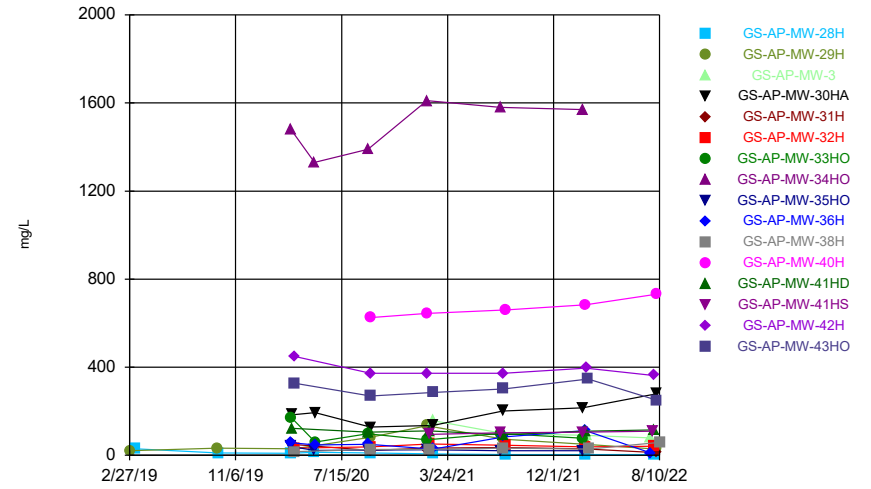
Time Series



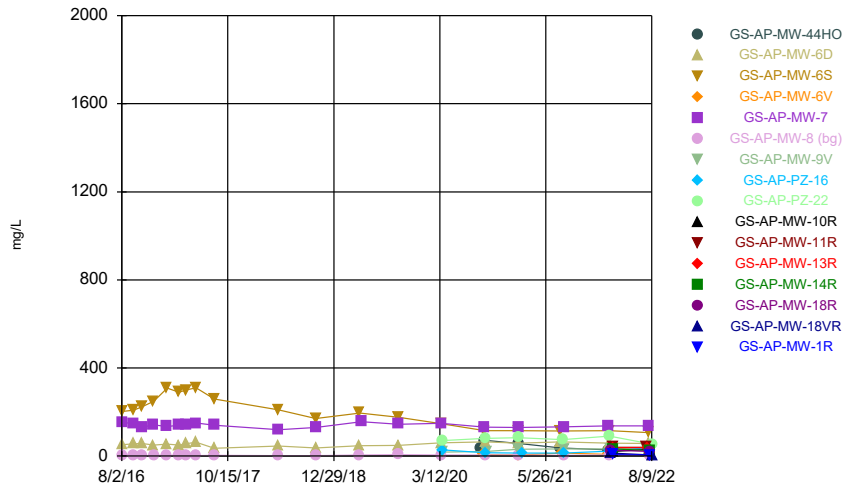
Time Series



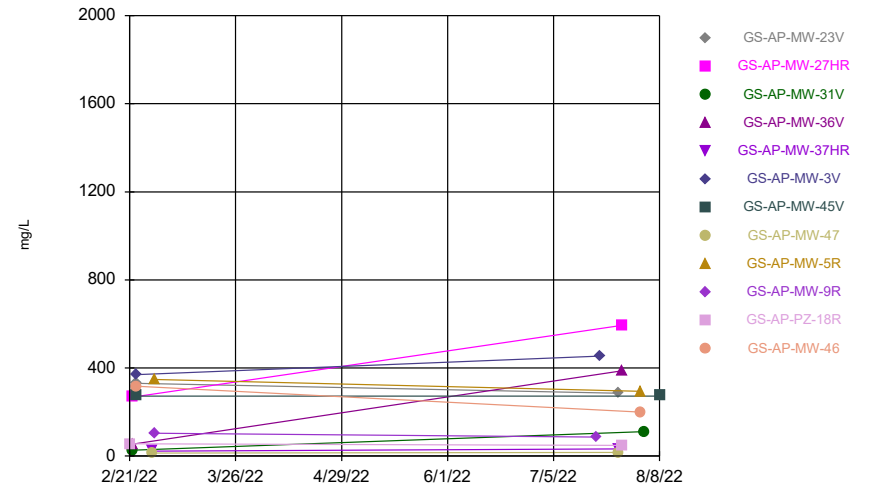
Time Series



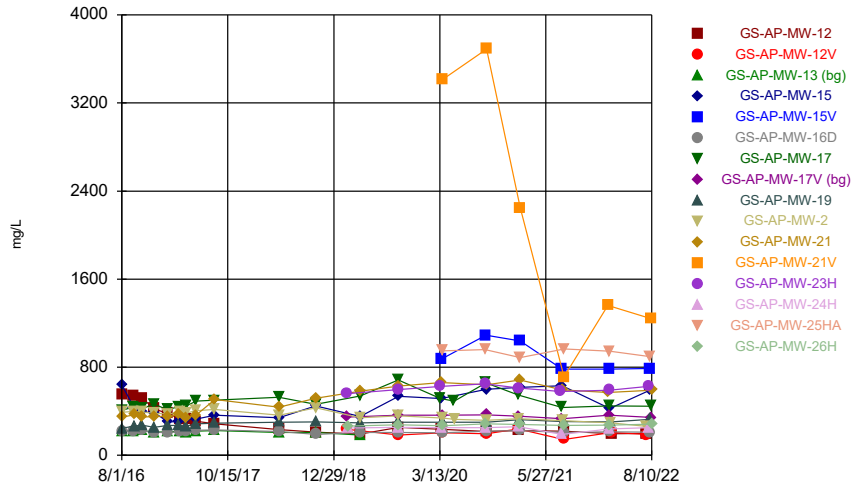
Time Series



Time Series

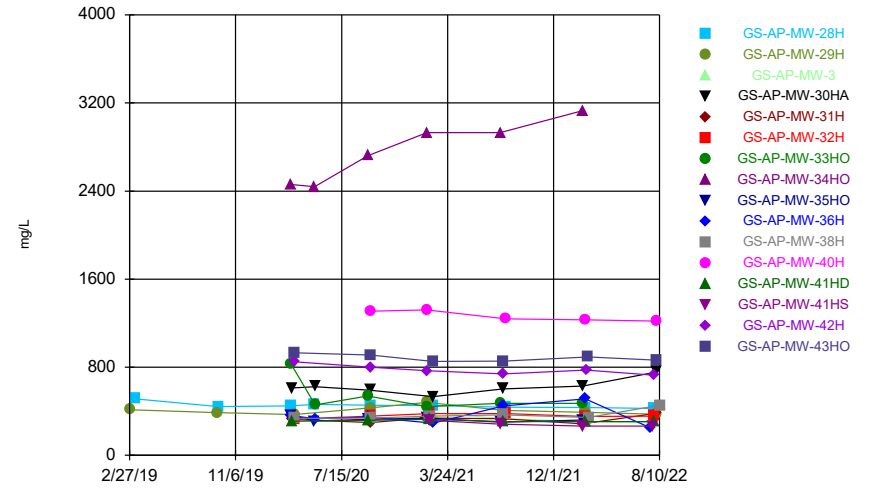


Time Series



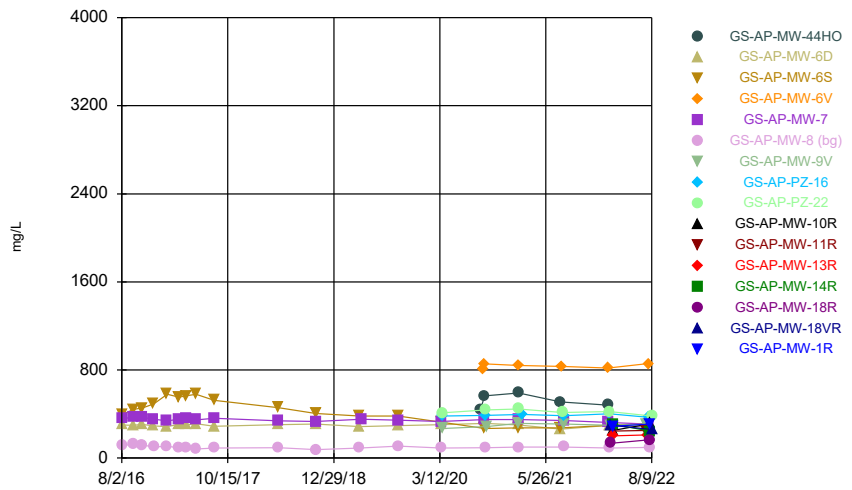
Constituent: TDS Analysis Run 10/6/2022 3:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



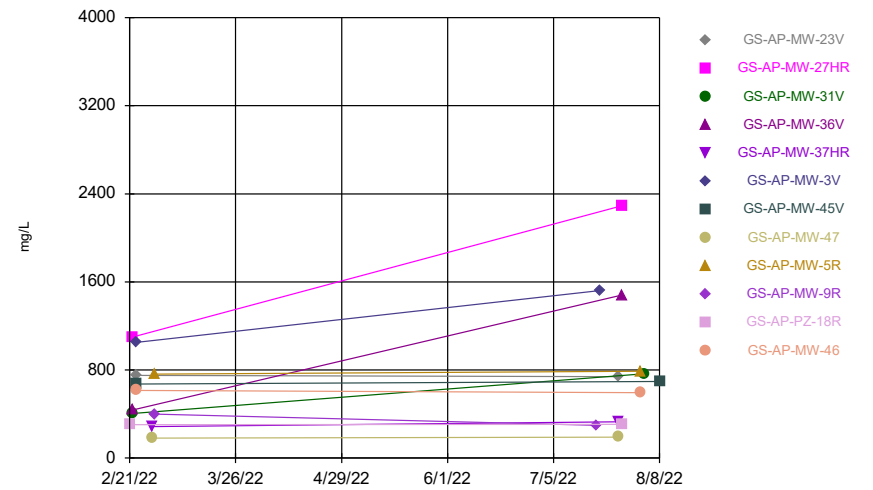
Constituent: TDS Analysis Run 10/6/2022 3:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



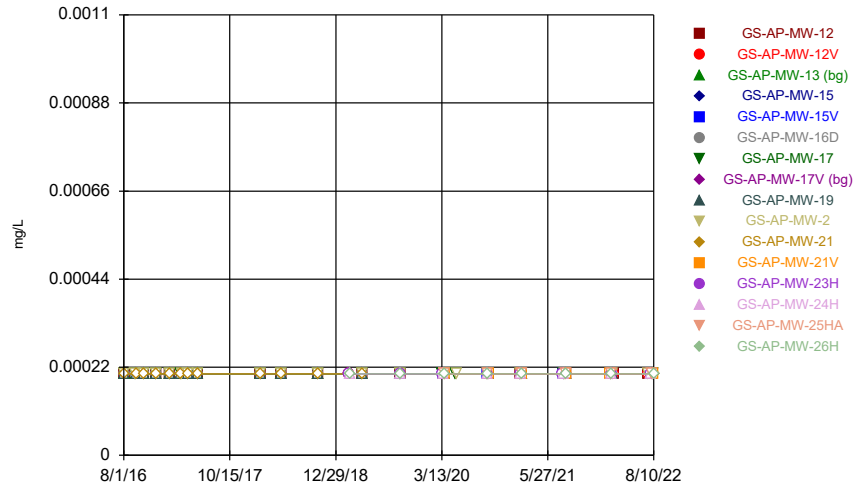
Constituent: TDS Analysis Run 10/6/2022 3:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



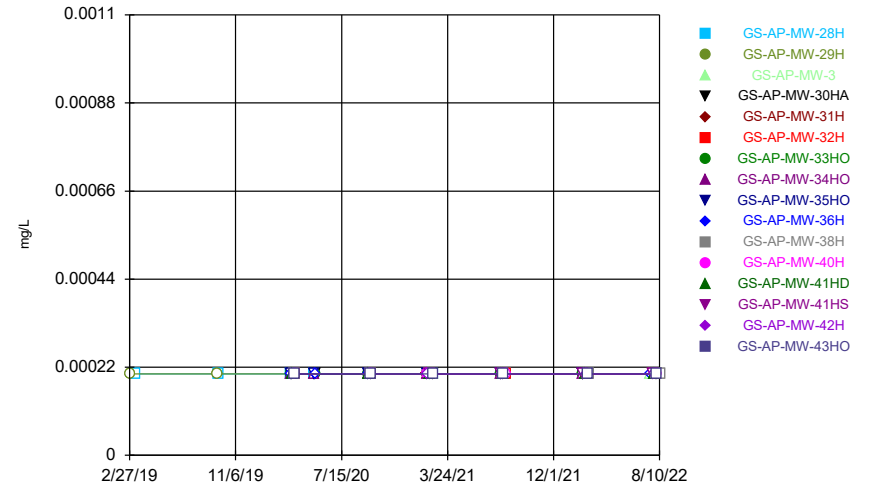
Constituent: TDS Analysis Run 10/6/2022 3:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



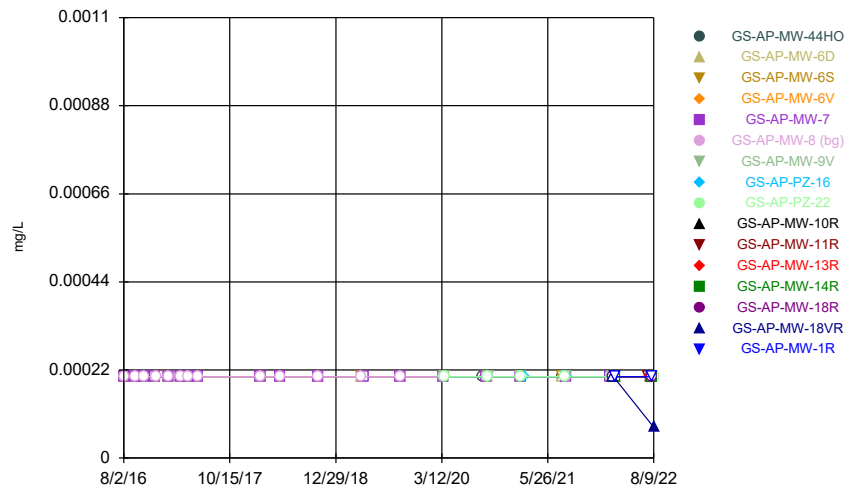
Constituent: Thallium Analysis Run 10/6/2022 3:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



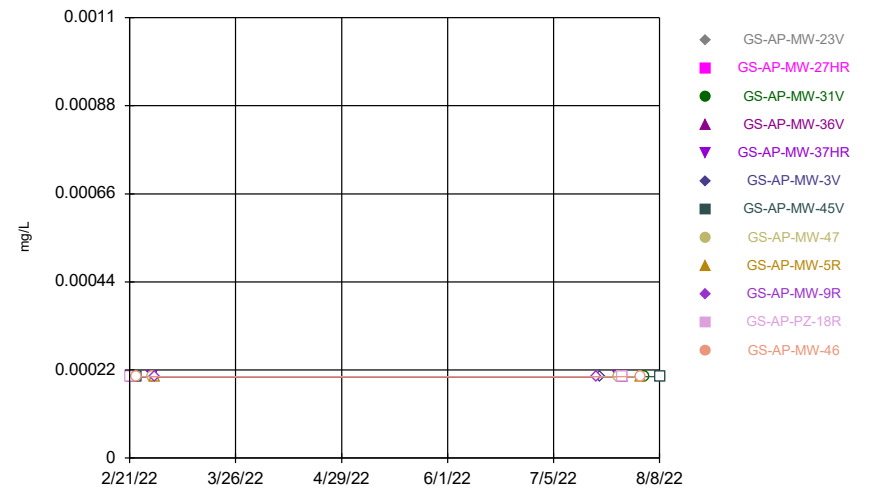
Constituent: Thallium Analysis Run 10/6/2022 3:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



Constituent: Thallium Analysis Run 10/6/2022 3:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series



Constituent: Thallium Analysis Run 10/6/2022 3:08 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|--------------|--------------|------------------|--------------|--------------|--------------|--------------|------------------|--------------|
| 8/1/2016 | | | | 0.00115 (J) | | <0.001015 | <0.001015 | | <0.001015 |
| 8/2/2016 | | | <0.001015 | | | | | | |
| 8/3/2016 | <0.001015 | | | | | | | | |
| 9/19/2016 | | | | | | <0.001015 | 0.000636 (J) | | |
| 9/20/2016 | <0.001015 | | <0.001015 | 0.000876 (J) | | | | | |
| 9/21/2016 | | | | | | | | | <0.001015 |
| 10/24/2016 | | | | | | | <0.001015 | | <0.001015 |
| 10/25/2016 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 | | | |
| 12/13/2016 | 0.000681 (J) | | <0.001015 | | | 0.000633 (J) | 0.00072 (J) | | 0.000613 (J) |
| 12/14/2016 | | | | 0.000858 (J) | | | | | |
| 2/6/2017 | | | | | | | <0.001015 | | |
| 2/7/2017 | | | | | | | | | <0.001015 |
| 2/8/2017 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 | | | |
| 3/27/2017 | | | | | | | <0.001015 | | |
| 3/28/2017 | | | | <0.001015 | | | | | <0.001015 |
| 3/29/2017 | <0.001015 | | <0.001015 | | | <0.001015 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | <0.001015 | | |
| 4/26/2017 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 | | | <0.001015 |
| 6/5/2017 | | | | | | | <0.001015 | | |
| 6/6/2017 | | | | <0.001015 | | <0.001015 | | | <0.001015 |
| 6/7/2017 | <0.001015 | | <0.001015 | | | | | | |
| 2/19/2018 | | | | | | | <0.001015 | | |
| 2/20/2018 | <0.001015 | | <0.001015 | 0.000636 (J) | | | | | |
| 2/21/2018 | | | | | | <0.001015 | | | <0.001015 |
| 5/15/2018 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 |
| 5/16/2018 | | | | | | <0.001015 | | | <0.001015 |
| 10/15/2018 | | | | <0.001015 | | | <0.001015 | | |
| 10/16/2018 | <0.001015 | | | | | | | | <0.001015 |
| 10/17/2018 | | | <0.001015 | | | <0.001015 | | | |
| 2/20/2019 | | | | | | | | 0.00115 (J) | |
| 2/21/2019 | | 0.000841 (J) | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | <0.001015 | | <0.001015 | | | | | | |
| 4/17/2019 | | | | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 |
| 9/23/2019 | | | | | | | <0.001015 | | |
| 9/24/2019 | | | | <0.001015 | | <0.001015 | | <0.001015 | <0.001015 |
| 9/25/2019 | <0.001015 | 0.0025 (J) | | | | | | | |
| 3/16/2020 | | | | | | | <0.001015 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.0022 (J) | | | 0.000976 (J) | 0.0028 (J) | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00128 (J) | | | | <0.001015 | | | <0.001015 |
| 3/25/2020 | | | | | | | | <0.001015 | |
| 5/12/2020 | | | | | | | <0.001015 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.0028 (J) | | <0.001015 | | |
| 9/22/2020 | | | | | | <0.001015 | | | <0.001015 |
| 9/23/2020 | 0.00202 (J) | 0.00152 (J) | | 0.000844 (J) | | | | <0.001015 | |
| 2/1/2021 | 0.000518 (J) | 0.000861 (J) | | | | | | | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.001015 | <0.001015 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.001015 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | <0.001015 | | | | | |
| 10/24/2016 | <0.001015 | | | | | | |
| 10/25/2016 | | <0.001015 | | | | | |
| 12/13/2016 | <0.001015 | | | | | | |
| 12/14/2016 | | 0.00119 (J) | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | <0.001015 | <0.001015 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | <0.001015 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | <0.001015 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.001015 | <0.001015 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.001015 | <0.001015 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | <0.001015 | | | | | |
| 2/21/2018 | <0.001015 | | | | | | |
| 5/15/2018 | | <0.001015 | | | | | |
| 5/16/2018 | <0.001015 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.001015 | <0.001015 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.000809 (J) | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | 0.000918 (J) | | |
| 2/27/2019 | | | | | | | 0.00094 (J) |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.001015 | <0.001015 | | | | | |
| 9/23/2019 | | | | <0.001015 | | | <0.001015 |
| 9/24/2019 | | <0.001015 | | | <0.001015 | | |
| 9/25/2019 | <0.001015 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.001015 | | | |
| 3/18/2020 | | <0.001015 | | | <0.001015 | | |
| 3/23/2020 | | | 0.000831 (J) | | | | |
| 3/24/2020 | | | | | | <0.001015 | |
| 3/25/2020 | <0.001015 | | | | | | <0.001015 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.001015 | | | | | | |
| 9/17/2020 | | | | <0.001015 | <0.001015 | <0.001015 | |
| 9/21/2020 | | | | | | | <0.001015 |
| 9/22/2020 | <0.001015 | | | | | | |
| 9/23/2020 | | <0.001015 | <0.001015 | | | | |
| 2/1/2021 | <0.001015 | | | | | | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | <0.001015 | | |
| 2/3/2021 | | | | <0.001015 | | | |
| 2/8/2021 | | <0.001015 | | | | | |
| 2/9/2021 | | | 0.000661 (J) | | | | <0.001015 |
| 2/10/2021 | | | | | | <0.001015 | |
| 7/27/2021 | | | | <0.001015 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.001015 | | |
| 8/4/2021 | <0.001015 | <0.001015 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | <0.001015 |
| 8/11/2021 | | | <0.001015 | | | | |
| 8/12/2021 | | | | | | <0.001015 | |
| 2/8/2022 | | <0.001015 | <0.001015 | | | | |
| 2/14/2022 | | | | <0.001015 | | | |
| 2/15/2022 | | | | | <0.001015 | | <0.001015 |
| 2/16/2022 | | | | | | 0.00075 (J) | |
| 2/22/2022 | <0.001015 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | <0.001015 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | <0.001015 | | | |
| 7/27/2022 | | | | | <0.001015 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | <0.001015 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | <0.001015 | | | | |
| 8/10/2022 | | <0.001015 | | | | | <0.001015 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.001015 | | | | | | |
| 3/18/2020 | | | | <0.001015 | | | |
| 3/24/2020 | | <0.001015 | | | | <0.001015 | |
| 3/25/2020 | | | | | | | <0.001015 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.001015 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.001015 | | | <0.001015 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | <0.001015 | <0.001015 | | | <0.001015 | <0.001015 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | <0.001015 | | | | |
| 2/3/2021 | | | | | | <0.001015 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | <0.001015 | <0.001015 | | |
| 2/9/2021 | | <0.001015 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | <0.001015 | | | | | | <0.001015 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | <0.001015 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | <0.001015 | | | |
| 8/4/2021 | <0.001015 | <0.001015 | | | | <0.001015 | <0.001015 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | <0.001015 | | | | |
| 2/8/2022 | | | | | <0.001015 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.001015 | | | | | | |
| 2/15/2022 | | | <0.001015 | <0.001015 | | | |
| 2/16/2022 | | | | | | <0.001015 | |
| 2/21/2022 | | | | | | | <0.001015 |
| 2/22/2022 | | <0.001015 | | | | | |
| 7/20/2022 | <0.001015 | | | | | | |
| 7/26/2022 | | | | | <0.001015 | | |
| 7/27/2022 | | | | <0.001015 | | <0.001015 | |
| 8/2/2022 | | | <0.001015 | | | | |
| 8/3/2022 | | | | | | | <0.001015 |
| 8/10/2022 | | <0.001015 | | | | | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.001015 | <0.001015 | |
| 2/28/2022 | | | | <0.001015 | | | |
| 3/1/2022 | <0.001015 | <0.001015 | <0.001015 | | | | <0.001015 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | <0.001015 | | | | | |
| 7/20/2022 | | | <0.001015 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | <0.001015 |
| 8/3/2022 | <0.001015 | | | <0.001015 | <0.001015 | | |
| 8/9/2022 | | | | | | <0.001015 | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 0.00053 (J) | <0.001015 | <0.001015 | | | | | |
| 2/23/2022 | <0.001015 | | | | | <0.001015 | <0.001015 | | |
| 2/28/2022 | | | | | <0.001015 | | | <0.001015 | |
| 3/1/2022 | | | | | | | | | <0.001015 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | <0.001015 | | | |
| 7/26/2022 | <0.001015 | | | | <0.001015 | | | <0.001015 | |
| 7/27/2022 | | <0.001015 | | <0.001015 | | | | | |
| 8/2/2022 | | | | | | | | | <0.001015 |
| 8/3/2022 | | | <0.001015 | | | | | | |
| 8/8/2022 | | | | | | | <0.001015 | | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | <0.001015 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | <0.001015 |
| 2/28/2022 | | | |
| 3/1/2022 | <0.001015 | | |
| 7/19/2022 | <0.001015 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | <0.001015 | |
| 8/2/2022 | | | <0.001015 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 0.015 | | <0.000203 | 0.00138 (J) | | <0.000203 |
| 8/2/2016 | | | <0.000203 | | | | | | |
| 8/3/2016 | 0.11 | | | | | | | | |
| 9/19/2016 | | | | | | <0.000203 | 0.00137 (J) | | |
| 9/20/2016 | 0.0746 | | <0.000203 | 0.0111 | | | | | |
| 9/21/2016 | | | | | | | | | <0.000203 |
| 10/24/2016 | | | | | | | 0.00122 (J) | | <0.000203 |
| 10/25/2016 | 0.0728 | | <0.000203 | 0.0109 | | <0.000203 | | | |
| 12/13/2016 | 0.0538 | | <0.000203 | | | <0.000203 | 0.00243 (J) | | <0.000203 |
| 12/14/2016 | | | | 0.011 | | | | | |
| 2/6/2017 | | | | | | | 0.00158 (J) | | |
| 2/7/2017 | | | | | | | | | <0.000203 |
| 2/8/2017 | 0.0427 | | <0.000203 | 0.00625 | | <0.000203 | | | |
| 3/27/2017 | | | | | | | 0.0011 (J) | | |
| 3/28/2017 | | | | 0.00558 | | | | | <0.000203 |
| 3/29/2017 | 0.0404 | | <0.000203 | | | <0.000203 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 0.00133 (J) | | |
| 4/26/2017 | 0.0372 | | <0.000203 | 0.007 | | <0.000203 | | | <0.000203 |
| 6/5/2017 | | | | | | | 0.00115 (J) | | |
| 6/6/2017 | | | | 0.00663 | | <0.000203 | | | <0.000203 |
| 6/7/2017 | 0.0307 | | <0.000203 | | | | | | |
| 2/19/2018 | | | | | | | 0.00424 (J) | | |
| 2/20/2018 | 0.0282 | | <0.000203 | 0.00724 | | | | | |
| 2/21/2018 | | | | | | <0.000203 | | | 0.00138 (J) |
| 5/15/2018 | 0.0253 | | <0.000203 | 0.00749 | | <0.000203 | 0.00352 (J) | | 0.00114 (J) |
| 5/16/2018 | | | | | | <0.000203 | | | |
| 10/15/2018 | | | | 0.0123 | | | 0.0018 (J) | | |
| 10/16/2018 | 0.0203 | | | | | | | | 0.00216 (J) |
| 10/17/2018 | | | <0.000203 | | | <0.000203 | | | |
| 2/20/2019 | | | | | | | | 0.0011 (J) | |
| 2/21/2019 | | <0.000203 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 0.014 | | <0.000203 | | | | | | |
| 4/17/2019 | | | | 0.00633 | | <0.000203 | 0.00343 (J) | | 0.00302 (J) |
| 9/23/2019 | | | | | | | 0.00631 | | |
| 9/24/2019 | | | | 0.011 | | <0.000203 | | 0.00149 (J) | 0.00289 (J) |
| 9/25/2019 | 0.0135 | 0.00129 (J) | | | | | | | |
| 3/16/2020 | | | | | | | 0.00268 (J) | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.00693 | | | 0.0217 | 0.011 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00266 (J) | | | | <0.000203 | | | 0.00313 (J) |
| 3/25/2020 | | | | | | | | <0.000203 | |
| 5/12/2020 | | | | | | | 0.00326 (J) | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.0167 | | 0.0055 | | |
| 9/22/2020 | | | | | | <0.000203 | | | 0.00313 (J) |
| 9/23/2020 | 0.00616 | 0.00176 (J) | | 0.0165 | | | | <0.000203 | |
| 2/1/2021 | 0.00747 | 0.00154 | | | | | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.000203 | 0.0027 (J) | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.000203 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 0.00258 (J) | | | | | |
| 10/24/2016 | <0.000203 | | | | | | |
| 10/25/2016 | | 0.00214 (J) | | | | | |
| 12/13/2016 | <0.000203 | | | | | | |
| 12/14/2016 | | 0.00193 (J) | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | <0.000203 | 0.00188 (J) | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 0.00153 (J) | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | <0.000203 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.000203 | 0.00135 (J) | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.000203 | 0.00131 (J) | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | <0.000203 | | | | | |
| 2/21/2018 | <0.000203 | | | | | | |
| 5/15/2018 | | <0.000203 | | | | | |
| 5/16/2018 | <0.000203 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.000203 | <0.000203 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.0306 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | <0.000203 | | |
| 2/27/2019 | | | | | | | <0.000203 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.000203 | <0.000203 | | | | | |
| 9/23/2019 | | | | 0.0369 | | | <0.000203 |
| 9/24/2019 | | <0.000203 | | | <0.000203 | | |
| 9/25/2019 | <0.000203 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 0.0524 | | | |
| 3/18/2020 | | <0.000203 | | | <0.000203 | | |
| 3/23/2020 | | | 0.0159 | | | | |
| 3/24/2020 | | | | | | 0.00798 | |
| 3/25/2020 | <0.000203 | | | | | | <0.000203 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.000203 | | | | | | |
| 9/17/2020 | | | | 0.0579 | <0.000203 | 0.00904 | |
| 9/21/2020 | | | | | | | 0.00143 (J) |
| 9/22/2020 | <0.000203 | | | | | | |
| 9/23/2020 | | <0.000203 | 0.01 | | | | |
| 2/1/2021 | <0.000203 | | | | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|-------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 0.000341 | | |
| 2/3/2021 | | | | 0.0562 | | | |
| 2/8/2021 | | 0.000624 | | | | | |
| 2/9/2021 | | | 0.0063 | | | | 0.000192 (J) |
| 2/10/2021 | | | | | | 0.00923 | |
| 7/27/2021 | | | | 0.0474 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.00033 | | |
| 8/4/2021 | <0.000203 | 0.00054 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 0.00019 (J) |
| 8/11/2021 | | | 0.00161 | | | | |
| 8/12/2021 | | | | | | 0.00888 | |
| 2/8/2022 | | 0.00046 | 0.00551 | | | | |
| 2/14/2022 | | | | 0.061 | | | |
| 2/15/2022 | | | | | 0.00029 | | 0.00025 |
| 2/16/2022 | | | | | | 0.00968 | |
| 2/22/2022 | <0.000203 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 8.3E-05 (J) | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 0.0616 | | | |
| 7/27/2022 | | | | | 0.00022 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 0.0103 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 0.00345 | | | | |
| 8/10/2022 | | 0.000495 | | | | | 0.000161 (J) |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.00171 (J) | | | | | | |
| 3/18/2020 | | | | <0.000203 | | | |
| 3/24/2020 | | 0.00302 (J) | | | | 0.00944 | |
| 3/25/2020 | | | | | | | 0.00509 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.00122 (J) | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.0013 (J) | | | 0.0016 (J) | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 0.00304 (J) | 0.00193 (J) | | | 0.00912 | 0.0039 (J) |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 0.000958 | | | | |
| 2/3/2021 | | | | | | 0.00806 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 0.00148 | 0.000551 | | |
| 2/9/2021 | | 0.0026 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 0.00102 | | | | | | 0.00132 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 0.00038 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 0.00289 | | | |
| 8/4/2021 | 0.00246 | 0.00287 | | | | 0.00846 | 0.00125 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 0.00046 | | | | |
| 2/8/2022 | | | | | 0.00144 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.00235 | | | | | | |
| 2/15/2022 | | | 0.0004 | 0.00284 | | | |
| 2/16/2022 | | | | | | 0.00846 | |
| 2/21/2022 | | | | | | | 0.00089 |
| 2/22/2022 | | 0.00221 | | | | | |
| 7/20/2022 | 0.0004 | | | | | | |
| 7/26/2022 | | | | | 0.000471 | | |
| 7/27/2022 | | | | 0.00271 | | 0.00938 | |
| 8/2/2022 | | | 0.000294 | | | | |
| 8/3/2022 | | | | | | | 0.00109 |
| 8/10/2022 | | 0.00294 | | | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.00037 | 0.00164 | |
| 2/28/2022 | | | | 0.00231 | | | |
| 3/1/2022 | 0.00209 | 0.00235 | 0.011 | | | | 0.00038 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | 0.00137 | | | | | |
| 7/20/2022 | | | 0.016 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 0.000259 |
| 8/3/2022 | 0.00109 | | | 0.00142 | 0.000429 | | |
| 8/9/2022 | | | | | | 0.00121 | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 0.00102 | 0.0011 | 0.00167 | | | | | |
| 2/23/2022 | 0.00016 (J) | | | | | 0.00249 | 0.00106 | | |
| 2/28/2022 | | | | | 0.00094 | | | 0.00038 | |
| 3/1/2022 | | | | | | | | | 0.00048 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 0.00228 | | | |
| 7/26/2022 | <0.000203 | | | | 0.00101 | | | 0.000423 | |
| 7/27/2022 | | 0.00148 | | 0.00447 | | | | | |
| 8/2/2022 | | | | | | | | | 0.000325 |
| 8/3/2022 | | | 0.0015 | | | | | | |
| 8/8/2022 | | | | | | | 0.000618 | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 0.00167 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 0.105 |
| 2/28/2022 | | | |
| 3/1/2022 | 0.00529 | | |
| 7/19/2022 | 0.00629 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 0.00143 | |
| 8/2/2022 | | | 0.119 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 0.117 | | 0.316 | 0.0696 | | 0.492 |
| 8/2/2016 | | | 0.184 | | | | | | |
| 8/3/2016 | 0.144 | | | | | | | | |
| 9/19/2016 | | | | | | 0.276 | 0.0503 | | |
| 9/20/2016 | 0.102 | | 0.153 | 0.193 | | | | | |
| 9/21/2016 | | | | | | | | | 0.371 |
| 10/24/2016 | | | | | | | 0.0468 | | 0.311 |
| 10/25/2016 | 0.109 | | 0.176 | 0.222 | | 0.3 | | | |
| 12/13/2016 | 0.115 | | 0.184 | | | 0.314 | 0.0472 | | 0.374 |
| 12/14/2016 | | | | 0.222 | | | | | |
| 2/6/2017 | | | | | | | 0.0498 | | |
| 2/7/2017 | | | | | | | | | 0.368 |
| 2/8/2017 | 0.122 | | 0.189 | 0.294 | | 0.324 | | | |
| 3/27/2017 | | | | | | | 0.0559 | | |
| 3/28/2017 | | | | 0.288 | | | | | 0.391 |
| 3/29/2017 | 0.116 | | 0.184 | | | 0.316 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 0.055 | | |
| 4/26/2017 | 0.127 | | 0.177 | 0.24 | | 0.323 | | | 0.371 |
| 6/5/2017 | | | | | | | 0.0552 | | |
| 6/6/2017 | | | | 0.228 | | 0.29 | | | 0.33 |
| 6/7/2017 | 0.115 | | 0.164 | | | | | | |
| 2/19/2018 | | | | | | | 0.077 | | |
| 2/20/2018 | 0.132 | | 0.165 | 0.224 | | | | | |
| 2/21/2018 | | | | | | 0.3 | | | 0.291 |
| 5/15/2018 | 0.163 | | 0.172 | 0.212 | | | 0.0751 | | |
| 5/16/2018 | | | | | | 0.315 | | | 0.343 |
| 10/15/2018 | | | | 0.133 | | | 0.0682 | | |
| 10/16/2018 | 0.159 | | | | | | | | 0.35 |
| 10/17/2018 | | | 0.165 | | | 0.331 | | | |
| 2/20/2019 | | | | | | | | 0.191 | |
| 2/21/2019 | | 1.35 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 0.161 | | 0.16 | | | | | | |
| 4/17/2019 | | | | 0.264 | | 0.322 | 0.0946 | | 0.316 |
| 9/23/2019 | | | | | | | 0.135 | | |
| 9/24/2019 | | | | 0.0913 | | 0.342 | | 0.208 | 0.356 |
| 9/25/2019 | 0.202 | 1.06 | | | | | | | |
| 3/16/2020 | | | | | | | 0.0883 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.195 | | | 0.14 | 0.155 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 1.43 | | | | 0.323 | | | 0.324 |
| 3/25/2020 | | | | | | | | 0.314 | |
| 5/12/2020 | | | | | | | 0.0941 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.18 | | 0.128 | | |
| 9/22/2020 | | | | | | 0.342 | | | 0.337 |
| 9/23/2020 | 0.193 | 1.27 | | 0.119 | | | | 0.299 | |
| 2/1/2021 | 0.201 | 1.6 | | | | | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | 0.0895 | 0.0535 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | 0.0744 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 0.0458 | | | | | |
| 10/24/2016 | 0.0787 | | | | | | |
| 10/25/2016 | | 0.0489 | | | | | |
| 12/13/2016 | 0.0758 | | | | | | |
| 12/14/2016 | | 0.0494 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 0.0823 | 0.0449 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 0.0446 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 0.0768 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.077 | 0.0424 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.0711 | 0.0402 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | 0.0441 | | | | | |
| 2/21/2018 | 0.0864 | | | | | | |
| 5/15/2018 | | 0.0456 | | | | | |
| 5/16/2018 | 0.0658 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.0846 | 0.0909 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | 0.0227 | | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | 0.887 | | | |
| 2/27/2019 | | | | | | 0.622 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.0576 | 0.0914 | | | | | |
| 9/23/2019 | | | 0.0148 | | | | 0.922 |
| 9/24/2019 | | 0.114 | | 1.04 | | | |
| 9/25/2019 | 0.065 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | 0.0143 | | | | |
| 3/18/2020 | | 0.105 | | 0.964 | | | |
| 3/23/2020 | | | 0.0574 | | | | |
| 3/24/2020 | | | | | 0.147 | | |
| 3/25/2020 | 0.0602 | | | | | | 0.868 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.0528 | | | | | | |
| 9/17/2020 | | | 0.0146 | 0.988 | 0.164 | | |
| 9/21/2020 | | | | | | | 0.938 |
| 9/22/2020 | 0.0563 | | | | | | |
| 9/23/2020 | | 0.157 | 0.0438 | | | | |
| 2/1/2021 | 0.0578 | | | | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 0.952 | | |
| 2/3/2021 | | | | 0.0138 | | | |
| 2/8/2021 | | 0.151 | | | | | |
| 2/9/2021 | | | 0.028 | | | | 0.775 |
| 2/10/2021 | | | | | | 0.208 | |
| 7/27/2021 | | | | 0.0133 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 1.04 | | |
| 8/4/2021 | 0.0702 | 0.148 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 0.765 |
| 8/11/2021 | | | 0.0535 | | | | |
| 8/12/2021 | | | | | | 0.2 | |
| 2/8/2022 | | 0.143 | 0.0631 | | | | |
| 2/14/2022 | | | | 0.0166 | | | |
| 2/15/2022 | | | | | 0.992 | | 0.726 |
| 2/16/2022 | | | | | | 0.23 | |
| 2/22/2022 | 0.0501 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 0.0474 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 0.0154 | | | |
| 7/27/2022 | | | | | 1.01 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 0.232 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 0.0477 | | | | |
| 8/10/2022 | | 0.135 | | | | | 0.766 |

Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.0353 | | | | | | |
| 3/18/2020 | | | | 0.0393 | | | |
| 3/24/2020 | | 0.253 | | | | 0.0253 | |
| 3/25/2020 | | | | | | | 0.0927 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.03 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.0378 | | | 0.0414 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 0.319 | 0.0417 | | | 0.0237 | 0.0921 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 0.0384 | | | | |
| 2/3/2021 | | | | | | 0.0216 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 0.0434 | 0.0544 | | |
| 2/9/2021 | | 0.356 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 0.0463 | | | | | | 0.0894 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 0.0445 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 0.045 | | | |
| 8/4/2021 | 0.0905 | 0.359 | | | | 0.0256 | 0.102 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 0.0358 | | | | |
| 2/8/2022 | | | | | 0.0542 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.136 | | | | | | |
| 2/15/2022 | | | 0.0298 | 0.0441 | | | |
| 2/16/2022 | | | | | | 0.0226 | |
| 2/21/2022 | | | | | | | 0.0849 |
| 2/22/2022 | | 0.301 | | | | | |
| 7/20/2022 | 0.0393 | | | | | | |
| 7/26/2022 | | | | | 0.0497 | | |
| 7/27/2022 | | | | 0.0475 | | 0.0238 | |
| 8/2/2022 | | | 0.0306 | | | | |
| 8/3/2022 | | | | | | | 0.0956 |
| 8/10/2022 | | 0.286 | | | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.0716 | 0.187 | |
| 2/28/2022 | | | | 0.174 | | | |
| 3/1/2022 | 0.701 | 0.107 | 0.0617 | | | | 0.072 |

Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | 0.11 | | | | | |
| 7/20/2022 | | | 0.0667 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 0.0679 |
| 8/3/2022 | 0.524 | | | 0.221 | 0.0895 | | |
| 8/9/2022 | | | | | | 0.126 | |

Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 0.0414 | 0.238 | 0.092 | | | | | |
| 2/23/2022 | 0.0812 | | | | | 0.0486 | 0.0207 | | |
| 2/28/2022 | | | | | 0.0131 | | | 0.772 | |
| 3/1/2022 | | | | | | | | | 0.0695 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 0.0815 | | | |
| 7/26/2022 | 0.0695 | | | | 0.0171 | | | 0.728 | |
| 7/27/2022 | | 0.0599 | | 0.114 | | | | | |
| 8/2/2022 | | | | | | | | | 0.0605 |
| 8/3/2022 | | | 0.342 | | | | | | |
| 8/8/2022 | | | | | | | 0.0257 | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 0.0662 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 0.0652 |
| 2/28/2022 | | | |
| 3/1/2022 | 0.0425 | | |
| 7/19/2022 | 0.0339 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 0.0668 | |
| 8/2/2022 | | | 0.0696 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 |
| 8/2/2016 | | | <0.001015 | | | | | | |
| 8/3/2016 | <0.001015 | | | | | | | | |
| 9/19/2016 | | | | | | <0.001015 | <0.001015 | | |
| 9/20/2016 | <0.001015 | | <0.001015 | <0.001015 | | | | | |
| 9/21/2016 | | | | | | | | | <0.001015 |
| 10/24/2016 | | | | | | | <0.001015 | | <0.001015 |
| 10/25/2016 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 | | | |
| 12/13/2016 | <0.001015 | | <0.001015 | | | <0.001015 | <0.001015 | | <0.001015 |
| 12/14/2016 | | | | <0.001015 | | | | | |
| 2/6/2017 | | | | | | | <0.001015 | | |
| 2/7/2017 | | | | | | | | | <0.001015 |
| 2/8/2017 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 | | | |
| 3/27/2017 | | | | | | | <0.001015 | | |
| 3/28/2017 | | | | <0.001015 | | | | | <0.001015 |
| 3/29/2017 | <0.001015 | | <0.001015 | | | <0.001015 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | <0.001015 | | |
| 4/26/2017 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 | | | <0.001015 |
| 6/5/2017 | | | | | | | <0.001015 | | |
| 6/6/2017 | | | | <0.001015 | | <0.001015 | | | <0.001015 |
| 6/7/2017 | <0.001015 | | <0.001015 | | | | | | |
| 2/19/2018 | | | | | | | <0.001015 | | |
| 2/20/2018 | <0.001015 | | <0.001015 | <0.001015 | | | | | |
| 2/21/2018 | | | | | | <0.001015 | | | <0.001015 |
| 5/15/2018 | <0.001015 | | <0.001015 | <0.001015 | | | <0.001015 | | |
| 5/16/2018 | | | | | | <0.001015 | | | <0.001015 |
| 10/15/2018 | | | | <0.001015 | | | <0.001015 | | |
| 10/16/2018 | <0.001015 | | | | | | | | <0.001015 |
| 10/17/2018 | | | <0.001015 | | | 0.00109 (J) | | | |
| 2/20/2019 | | | | | | | | <0.001015 | |
| 2/21/2019 | | <0.001015 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | <0.001015 | | <0.001015 | | | | | | |
| 4/17/2019 | | | | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 |
| 9/23/2019 | | | | | | | <0.001015 | | |
| 9/24/2019 | | | | <0.001015 | | <0.001015 | | <0.001015 | <0.001015 |
| 9/25/2019 | <0.001015 | <0.001015 | | | | | | | |
| 3/16/2020 | | | | | | | <0.001015 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.001015 | | | <0.001015 | <0.001015 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <0.001015 | | | | <0.001015 | | | <0.001015 |
| 3/25/2020 | | | | | | | | <0.001015 | |
| 5/12/2020 | | | | | | | <0.001015 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.001015 | | <0.001015 | | |
| 9/22/2020 | | | | | | <0.001015 | | | <0.001015 |
| 9/23/2020 | <0.001015 | <0.001015 | | <0.001015 | | | | <0.001015 | |
| 2/1/2021 | <0.001015 | <0.001015 | | | | | | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|-------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.001015 | <0.001015 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.001015 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | <0.001015 | | | | | |
| 10/24/2016 | <0.001015 | | | | | | |
| 10/25/2016 | | <0.001015 | | | | | |
| 12/13/2016 | <0.001015 | | | | | | |
| 12/14/2016 | | <0.001015 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | <0.001015 | <0.001015 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | <0.001015 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | <0.001015 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.001015 | <0.001015 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.001015 | <0.001015 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | <0.001015 | | | | | |
| 2/21/2018 | <0.001015 | | | | | | |
| 5/15/2018 | | <0.001015 | | | | | |
| 5/16/2018 | <0.001015 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.00138 (J) | <0.001015 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.001015 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | <0.001015 | | |
| 2/27/2019 | | | | | | | <0.001015 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.001015 | <0.001015 | | | | | |
| 9/23/2019 | | | | <0.001015 | | | <0.001015 |
| 9/24/2019 | | <0.001015 | | | <0.001015 | | |
| 9/25/2019 | <0.001015 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.001015 | | | |
| 3/18/2020 | | <0.001015 | | | <0.001015 | | |
| 3/23/2020 | | | <0.001015 | | | | |
| 3/24/2020 | | | | | | <0.001015 | |
| 3/25/2020 | <0.001015 | | | | | | <0.001015 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.001015 | | | | | | |
| 9/17/2020 | | | | <0.001015 | <0.001015 | <0.001015 | |
| 9/21/2020 | | | | | | | <0.001015 |
| 9/22/2020 | <0.001015 | | | | | | |
| 9/23/2020 | | <0.001015 | <0.001015 | | | | |
| 2/1/2021 | <0.001015 | | | | | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | <0.001015 | | |
| 2/3/2021 | | | | <0.001015 | | | |
| 2/8/2021 | | <0.001015 | | | | | |
| 2/9/2021 | | | <0.001015 | | | | <0.001015 |
| 2/10/2021 | | | | | | <0.001015 | |
| 7/27/2021 | | | | <0.001015 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.001015 | | |
| 8/4/2021 | <0.001015 | <0.001015 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | <0.001015 |
| 8/11/2021 | | | <0.001015 | | | | |
| 8/12/2021 | | | | | | <0.001015 | |
| 2/8/2022 | | <0.001015 | <0.001015 | | | | |
| 2/14/2022 | | | | <0.001015 | | | |
| 2/15/2022 | | | | | <0.001015 | | <0.001015 |
| 2/16/2022 | | | | | | <0.001015 | |
| 2/22/2022 | <0.001015 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | <0.001015 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | <0.001015 | | | |
| 7/27/2022 | | | | | <0.001015 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | <0.001015 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | <0.001015 | | | | |
| 8/10/2022 | | <0.001015 | | | | | <0.001015 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.001015 | | | | | | |
| 3/18/2020 | | | | <0.001015 | | | |
| 3/24/2020 | | <0.001015 | | | | <0.001015 | |
| 3/25/2020 | | | | | | | <0.001015 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.001015 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.001015 | | | <0.001015 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | <0.001015 | <0.001015 | | | <0.001015 | <0.001015 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | <0.001015 | | | | |
| 2/3/2021 | | | | | | <0.001015 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | <0.001015 | <0.001015 | | |
| 2/9/2021 | | <0.001015 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | <0.001015 | | | | | | <0.001015 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | <0.001015 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | <0.001015 | | | |
| 8/4/2021 | <0.001015 | <0.001015 | | | | <0.001015 | <0.001015 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | <0.001015 | | | | |
| 2/8/2022 | | | | | <0.001015 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.001015 | | | | | | |
| 2/15/2022 | | | <0.001015 | <0.001015 | | | |
| 2/16/2022 | | | | | | <0.001015 | |
| 2/21/2022 | | | | | | | <0.001015 |
| 2/22/2022 | | <0.001015 | | | | | |
| 7/20/2022 | <0.001015 | | | | | | |
| 7/26/2022 | | | | | <0.001015 | | |
| 7/27/2022 | | | | <0.001015 | | <0.001015 | |
| 8/2/2022 | | | <0.001015 | | | | |
| 8/3/2022 | | | | | | | <0.001015 |
| 8/10/2022 | | <0.001015 | | | | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.001015 | <0.001015 | |
| 2/28/2022 | | | | <0.001015 | | | |
| 3/1/2022 | <0.001015 | <0.001015 | <0.001015 | | | | <0.001015 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | <0.001015 | | | | | |
| 7/20/2022 | | | <0.001015 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | <0.001015 |
| 8/3/2022 | <0.001015 | | | <0.001015 | <0.001015 | | |
| 8/9/2022 | | | | | | <0.001015 | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | <0.001015 | <0.001015 | <0.001015 | | | | | |
| 2/23/2022 | <0.001015 | | | | | <0.001015 | <0.001015 | | |
| 2/28/2022 | | | | | <0.001015 | | | <0.001015 | |
| 3/1/2022 | | | | | | | | | <0.001015 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | <0.001015 | | | |
| 7/26/2022 | <0.001015 | | | | <0.001015 | | | <0.001015 | |
| 7/27/2022 | | <0.001015 | | <0.001015 | | | | | |
| 8/2/2022 | | | | | | | | | <0.001015 |
| 8/3/2022 | | | <0.001015 | | | | | | |
| 8/8/2022 | | | | | | | <0.001015 | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | <0.001015 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | <0.001015 |
| 2/28/2022 | | | |
| 3/1/2022 | <0.001015 | | |
| 7/19/2022 | <0.001015 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | <0.001015 | |
| 8/2/2022 | | | <0.001015 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 0.0955 (J) | | 0.0266 (J) | 0.0712 (J) | | 0.0279 (J) |
| 8/2/2016 | | | <0.1015 | | | | | | |
| 8/3/2016 | 0.34 | | | | | | | | |
| 9/19/2016 | | | | | | 0.0262 (J) | 0.0716 (J) | | |
| 9/20/2016 | 0.299 | | <0.1015 | 0.0706 (J) | | | | | |
| 9/21/2016 | | | | | | | | | 0.0235 (J) |
| 10/24/2016 | | | | | | | 0.0858 (J) | | 0.0444 (J) |
| 10/25/2016 | 0.323 | | <0.1015 | 0.0849 (J) | | 0.0273 (J) | | | |
| 12/13/2016 | 0.294 | | <0.1015 | | | 0.0258 (J) | 0.0875 (J) | | 0.0285 (J) |
| 12/14/2016 | | | | 0.0914 (J) | | | | | |
| 2/6/2017 | | | | | | | 0.0729 (J) | | |
| 2/7/2017 | | | | | | | | | 0.03 (J) |
| 2/8/2017 | 0.264 | | <0.1015 | 0.0524 (J) | | 0.0249 (J) | | | |
| 3/27/2017 | | | | | | | 0.0706 (J) | | |
| 3/28/2017 | | | | 0.0532 (J) | | | | | 0.0309 (J) |
| 3/29/2017 | 0.246 | | <0.1015 | | | 0.0247 (J) | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 0.0737 (J) | | |
| 4/26/2017 | 0.234 | | <0.1015 | 0.0598 (J) | | 0.0264 (J) | | | 0.0273 (J) |
| 6/5/2017 | | | | | | | 0.0767 (J) | | |
| 6/6/2017 | | | | 0.0576 (J) | | 0.0247 (J) | | | 0.0212 (J) |
| 6/7/2017 | 0.194 | | <0.1015 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 0.156 | | <0.1015 | 0.0702 (J) | | 0.0246 (J) | 0.0786 (J) | | 0.0294 (J) |
| 8/23/2017 | | | | | | | | | |
| 5/15/2018 | 0.0781 (J) | | <0.1015 | 0.0567 (J) | | | 0.0953 (J) | | |
| 5/16/2018 | | | | | | 0.0247 (J) | | | 0.0356 (J) |
| 10/15/2018 | | | | 0.07 (J) | | | 0.0842 (J) | | |
| 10/16/2018 | 0.057 (J) | | | | | | | | 0.0363 (J) |
| 10/17/2018 | | | <0.1015 | | | 0.0251 (J) | | | |
| 2/20/2019 | | | | | | | | 0.0337 (J) | |
| 2/21/2019 | | 0.0303 (J) | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 0.0385 (J) | | <0.1015 | | | | | | |
| 4/17/2019 | | | | 0.0388 (J) | | <0.1015 | 0.0916 (J) | | 0.0336 (J) |
| 9/23/2019 | | | | | | | 0.116 | | |
| 9/24/2019 | | | | 0.0607 (J) | | <0.1015 | | 0.0532 (J) | 0.0375 (J) |
| 9/25/2019 | 0.122 | 0.0347 (J) | | | | | | | |
| 3/16/2020 | | | | | | | 0.0894 (J) | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.0449 (J) | | | 0.0596 (J) | 0.0565 (J) | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.0343 (J) | | | | <0.1015 | | | 0.0398 (J) |
| 3/25/2020 | | | | | | | | 0.0482 (J) | |
| 5/12/2020 | | | | | | | 0.0862 (J) | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.0712 (J) | | 0.102 | | |
| 9/22/2020 | | | | | | <0.1015 | | | 0.037 (J) |
| 9/23/2020 | 0.0446 (J) | 0.0322 (J) | | 0.0537 (J) | | | | 0.0478 (J) | |
| 2/1/2021 | 0.0672 (J) | <0.1015 | | | | | | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | 0.178 | 0.176 (o) | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | 0.0937 (J) | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 0.0723 (J) | | | | | |
| 10/24/2016 | 0.0986 (J) | | | | | | |
| 10/25/2016 | | 0.0867 (J) | | | | | |
| 12/13/2016 | 0.0965 (J) | | | | | | |
| 12/14/2016 | | 0.092 (J) | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 0.0896 (J) | 0.0803 (J) | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 0.0804 (J) | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 0.0871 (J) | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.0818 (J) | 0.0801 (J) | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.0805 (J) | 0.0795 (J) | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | 0.102 | | | | | | |
| 8/22/2017 | | | | | | | |
| 8/23/2017 | | 0.0764 (J) | | | | | |
| 5/15/2018 | | 0.0769 (J) | | | | | |
| 5/16/2018 | 0.147 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.169 | 0.0764 (J) | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.0498 (J) | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | 0.0719 (J) | | |
| 2/27/2019 | | | | | | | <0.1015 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.165 | 0.0675 (J) | | | | | |
| 9/23/2019 | | | | 0.0641 (J) | | | <0.1015 |
| 9/24/2019 | | 0.0843 (J) | | | 0.0821 (J) | | |
| 9/25/2019 | 0.153 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 0.0504 (J) | | | |
| 3/18/2020 | | 0.0824 (J) | | | 0.0811 (J) | | |
| 3/23/2020 | | | 0.122 | | | | |
| 3/24/2020 | | | | | | 0.146 | |
| 3/25/2020 | 0.163 | | | | | | <0.1015 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.154 | | | | | | |
| 9/17/2020 | | | | 0.0637 (J) | 0.069 (J) | 0.138 | |
| 9/21/2020 | | | | | | | 0.0334 (J) |
| 9/22/2020 | 0.133 | | | | | | |
| 9/23/2020 | | 0.0871 (J) | 0.126 | | | | |
| 2/1/2021 | 0.13 | | | | | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 0.0685 (J) | | |
| 2/3/2021 | | | | 0.0425 (J) | | | |
| 2/8/2021 | | 0.0991 (J) | | | | | |
| 2/9/2021 | | | 0.114 | | | | <0.1015 |
| 2/10/2021 | | | | | | 0.147 | |
| 7/27/2021 | | | | 0.0474 (J) | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.0721 (J) | | |
| 8/4/2021 | 0.117 | 0.0993 (J) | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | <0.1015 |
| 8/11/2021 | | | 0.0631 (J) | | | | |
| 8/12/2021 | | | | | | 0.13 | |
| 2/8/2022 | | 0.111 | 0.0938 (J) | | | | |
| 2/14/2022 | | | | 0.035 (J) | | | |
| 2/15/2022 | | | | | 0.0708 (J) | | <0.1015 |
| 2/16/2022 | | | | | | 0.145 | |
| 2/22/2022 | 0.112 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 0.106 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 0.0338 (J) | | | |
| 7/27/2022 | | | | | 0.0641 (J) | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 0.15 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 0.0869 (J) | | | | |
| 8/10/2022 | | 0.119 | | | | | <0.1015 |

Time Series

Constituent: Boron (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.0394 (J) | | | | | | |
| 3/18/2020 | | | | 1.45 | | | |
| 3/24/2020 | | 0.0468 (J) | | | | <0.1015 | |
| 3/25/2020 | | | | | | | 0.112 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.0359 (J) | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.0345 (J) | | | 1.42 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 0.0461 (J) | 0.0326 (J) | | | 0.0469 (J) | 0.12 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 0.0305 (J) | | | | |
| 2/3/2021 | | | | | | 0.053 (J) | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 1.48 | 1.06 | | |
| 2/9/2021 | | 0.0504 (J) | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 0.0413 (J) | | | | | | 0.119 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 1.09 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 1.48 | | | |
| 8/4/2021 | 0.0449 (J) | 0.0479 (J) | | | | 0.0578 (J) | 0.126 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | <0.1015 | | | | |
| 2/8/2022 | | | | | 1.04 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.0467 (J) | | | | | | |
| 2/15/2022 | | | 0.0321 (J) | 1.52 | | | |
| 2/16/2022 | | | | | | 0.0502 (J) | |
| 2/21/2022 | | | | | | | 0.13 |
| 2/22/2022 | | 0.0452 (J) | | | | | |
| 7/20/2022 | 0.0316 (J) | | | | | | |
| 7/26/2022 | | | | | 1.01 | | |
| 7/27/2022 | | | | 1.62 | | 0.05 (J) | |
| 8/2/2022 | | | 0.0327 (J) | | | | |
| 8/3/2022 | | | | | | | 0.139 |
| 8/10/2022 | | 0.0498 (J) | | | | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | <0.1015 | | 0.0488 (J) | |
| 2/28/2022 | | | | <0.1015 | | | |
| 3/1/2022 | <0.1015 | 0.0844 (J) | <0.1015 | | | | 0.0582 (J) |

Time Series

Constituent: Boron (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | 0.111 | | | | | |
| 7/20/2022 | | | <0.1015 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 0.0596 (J) |
| 8/3/2022 | <0.1015 | | | <0.1015 | <0.1015 | | |
| 8/9/2022 | | | | | | 0.0488 (J) | |

Time Series

Constituent: Boron (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 0.0541 (J) | <0.1015 | 0.0402 (J) | | | | | |
| 2/23/2022 | 0.0919 (J) | | | | | 0.109 | 0.038 (J) | | |
| 2/28/2022 | | | | | <0.1015 | | | <0.1015 | |
| 3/1/2022 | | | | | | | | | 0.036 (J) |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 0.148 | | | |
| 7/26/2022 | 0.0772 (J) | | | | <0.1015 | | | <0.1015 | |
| 7/27/2022 | | 0.107 | | 0.0689 (J) | | | | | |
| 8/2/2022 | | | | | | | | | 0.0384 (J) |
| 8/3/2022 | | | 0.0391 (J) | | | | | | |
| 8/8/2022 | | | | | | | 0.0415 (J) | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 0.0925 (J) | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 0.768 |
| 2/28/2022 | | | |
| 3/1/2022 | 0.106 | | |
| 7/19/2022 | 0.104 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 0.0879 (J) | |
| 8/2/2022 | | | 0.832 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 |
| 8/2/2016 | | | <0.000203 | | | | | | |
| 8/3/2016 | <0.000203 | | | | | | | | |
| 9/19/2016 | | | | | | <0.000203 | <0.000203 | | |
| 9/20/2016 | <0.000203 | | <0.000203 | <0.000203 | | | | | |
| 9/21/2016 | | | | | | | | | <0.000203 |
| 10/24/2016 | | | | | | | <0.000203 | | <0.000203 |
| 10/25/2016 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | |
| 12/13/2016 | <0.000203 | | <0.000203 | | | <0.000203 | <0.000203 | | <0.000203 |
| 12/14/2016 | | | | <0.000203 | | | | | |
| 2/6/2017 | | | | | | | <0.000203 | | |
| 2/7/2017 | | | | | | | | | <0.000203 |
| 2/8/2017 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | |
| 3/27/2017 | | | | | | | <0.000203 | | |
| 3/28/2017 | | | | <0.000203 | | | | | <0.000203 |
| 3/29/2017 | <0.000203 | | <0.000203 | | | <0.000203 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | <0.000203 | | |
| 4/26/2017 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | <0.000203 |
| 6/5/2017 | | | | | | | <0.000203 | | |
| 6/6/2017 | | | | <0.000203 | | <0.000203 | | | <0.000203 |
| 6/7/2017 | <0.000203 | | <0.000203 | | | | | | |
| 2/19/2018 | | | | | | | <0.000203 | | |
| 2/20/2018 | <0.000203 | | <0.000203 | <0.000203 | | | | | |
| 2/21/2018 | | | | | | <0.000203 | | | <0.000203 |
| 5/15/2018 | <0.000203 | | <0.000203 | <0.000203 | | | <0.000203 | | |
| 5/16/2018 | | | | | | <0.000203 | | | <0.000203 |
| 10/15/2018 | | | | <0.000203 | | | <0.000203 | | |
| 10/16/2018 | <0.000203 | | | | | | | | <0.000203 |
| 10/17/2018 | | | <0.000203 | | | <0.000203 | | | |
| 2/20/2019 | | | | | | | | <0.000203 | |
| 2/21/2019 | | <0.000203 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | <0.000203 | | <0.000203 | | | | | | |
| 4/17/2019 | | | | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 |
| 9/23/2019 | | | | | | | <0.000203 | | |
| 9/24/2019 | | | | <0.000203 | | <0.000203 | | <0.000203 | <0.000203 |
| 9/25/2019 | <0.000203 | <0.000203 | | | | | | | |
| 3/16/2020 | | | | | | | <0.000203 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.000203 | | | <0.000203 | <0.000203 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <0.000203 | | | | <0.000203 | | | <0.000203 |
| 3/25/2020 | | | | | | | | <0.000203 | |
| 5/12/2020 | | | | | | | <0.000203 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.000203 | | <0.000203 | | |
| 9/22/2020 | | | | | | <0.000203 | | | <0.000203 |
| 9/23/2020 | <0.000203 | <0.000203 | | <0.000203 | | | | <0.000203 | |
| 2/1/2021 | <0.000203 | <0.000203 | | | | | | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 3:13 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.000203 | <0.000203 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.000203 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | <0.000203 | | | | | |
| 10/24/2016 | <0.000203 | | | | | | |
| 10/25/2016 | | <0.000203 | | | | | |
| 12/13/2016 | <0.000203 | | | | | | |
| 12/14/2016 | | <0.000203 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | <0.000203 | <0.000203 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | <0.000203 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | <0.000203 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.000203 | <0.000203 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.000203 | <0.000203 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | <0.000203 | | | | | |
| 2/21/2018 | <0.000203 | | | | | | |
| 5/15/2018 | | <0.000203 | | | | | |
| 5/16/2018 | <0.000203 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.000203 | <0.000203 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.000203 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | <0.000203 | | |
| 2/27/2019 | | | | | | | <0.000203 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.000203 | <0.000203 | | | | | |
| 9/23/2019 | | | | <0.000203 | | | <0.000203 |
| 9/24/2019 | | <0.000203 | | | <0.000203 | | |
| 9/25/2019 | <0.000203 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.000203 | | | |
| 3/18/2020 | | <0.000203 | | | <0.000203 | | |
| 3/23/2020 | | | <0.000203 | | | | |
| 3/24/2020 | | | | | | <0.000203 | |
| 3/25/2020 | <0.000203 | | | | | | <0.000203 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.000203 | | | | | | |
| 9/17/2020 | | | | <0.000203 | <0.000203 | <0.000203 | |
| 9/21/2020 | | | | | | | <0.000203 |
| 9/22/2020 | <0.000203 | | | | | | |
| 9/23/2020 | | <0.000203 | <0.000203 | | | | |
| 2/1/2021 | <0.000203 | | | | | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | <0.000203 | | |
| 2/3/2021 | | | | <0.000203 | | | |
| 2/8/2021 | | <0.000203 | | | | | |
| 2/9/2021 | | | <0.000203 | | | | <0.000203 |
| 2/10/2021 | | | | | | <0.000203 | |
| 7/27/2021 | | | | <0.000203 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.000203 | | |
| 8/4/2021 | <0.000203 | <0.000203 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | <0.000203 |
| 8/11/2021 | | | <0.000203 | | | | |
| 8/12/2021 | | | | | | <0.000203 | |
| 2/8/2022 | | <0.000203 | <0.000203 | | | | |
| 2/14/2022 | | | | <0.000203 | | | |
| 2/15/2022 | | | | | <0.000203 | | <0.000203 |
| 2/16/2022 | | | | | | <0.000203 | |
| 2/22/2022 | <0.000203 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | <0.000203 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | <0.000203 | | | |
| 7/27/2022 | | | | | <0.000203 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | <0.000203 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | <0.000203 | | | | |
| 8/10/2022 | | <0.000203 | | | | | <0.000203 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.000203 | | | | | | |
| 3/18/2020 | | | | <0.000203 | | | |
| 3/24/2020 | | <0.000203 | | | | <0.000203 | |
| 3/25/2020 | | | | | | | <0.000203 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.000203 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.000203 | | | <0.000203 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | <0.000203 | <0.000203 | | | <0.000203 | <0.000203 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | <0.000203 | | | | |
| 2/3/2021 | | | | | | <0.000203 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | <0.000203 | <0.000203 | | |
| 2/9/2021 | | <0.000203 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | <0.000203 | | | | | | <0.000203 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | <0.000203 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | <0.000203 | | | |
| 8/4/2021 | <0.000203 | <0.000203 | | | | <0.000203 | <0.000203 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | <0.000203 | | | | |
| 2/8/2022 | | | | | <0.000203 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.000203 | | | | | | |
| 2/15/2022 | | | <0.000203 | <0.000203 | | | |
| 2/16/2022 | | | | | | <0.000203 | |
| 2/21/2022 | | | | | | | <0.000203 |
| 2/22/2022 | | <0.000203 | | | | | |
| 7/20/2022 | <0.000203 | | | | | | |
| 7/26/2022 | | | | | <0.000203 | | |
| 7/27/2022 | | | | <0.000203 | | <0.000203 | |
| 8/2/2022 | | | <0.000203 | | | | |
| 8/3/2022 | | | | | | | <0.000203 |
| 8/10/2022 | | <0.000203 | | | | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.000203 | <0.000203 | |
| 2/28/2022 | | | | <0.000203 | | | |
| 3/1/2022 | <0.000203 | <0.000203 | <0.000203 | | | | <0.000203 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | <0.000203 | <0.000203 | <0.000203 | | | | | |
| 2/23/2022 | <0.000203 | | | | | <0.000203 | <0.000203 | | |
| 2/28/2022 | | | | | <0.000203 | | | <0.000203 | |
| 3/1/2022 | | | | | | | | | <0.000203 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | <0.000203 | | | |
| 7/26/2022 | <0.000203 | | | | <0.000203 | | | <0.000203 | |
| 7/27/2022 | | <0.000203 | | <0.000203 | | | | | |
| 8/2/2022 | | | | | | | | | <0.000203 |
| 8/3/2022 | | | <0.000203 | | | | | | |
| 8/8/2022 | | | | | | | <0.000203 | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 3:13 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | <0.000203 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | <0.000203 |
| 2/28/2022 | | | |
| 3/1/2022 | <0.000203 | | |
| 7/19/2022 | <0.000203 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | <0.000203 | |
| 8/2/2022 | | | <0.000203 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 10.5 | | 33 | 4.52 | | 39.6 |
| 8/2/2016 | | | 47.2 | | | | | | |
| 8/3/2016 | 36.1 | | | | | | | | |
| 9/19/2016 | | | | | | 31.7 | 4.3 | | |
| 9/20/2016 | 27 | | 46.3 | 14.7 | | | | | |
| 9/21/2016 | | | | | | | | | 38.1 |
| 10/24/2016 | | | | | | | 4.02 | | 34.7 |
| 10/25/2016 | 26.1 | | 46.6 | 14.7 | | 32.2 | | | |
| 12/13/2016 | 29.4 | | 43.1 | | | 33.1 | 5.5 | | 44 |
| 12/14/2016 | | | | 11.9 | | | | | |
| 2/6/2017 | | | | | | | 3.79 | | |
| 2/7/2017 | | | | | | | | | 39 |
| 2/8/2017 | 31.9 | | 47.5 | 14.4 | | 32.7 | | | |
| 3/27/2017 | | | | | | | 3.13 | | |
| 3/28/2017 | | | | 12.9 | | | | | 43.9 |
| 3/29/2017 | 31.8 | | 46.8 | | | 32.7 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 3.41 | | |
| 4/26/2017 | 34.6 | | 48.1 | 10.4 | | 33.8 | | | 42.8 |
| 6/5/2017 | | | | | | | 3.32 | | |
| 6/6/2017 | | | | 9.41 | | 32.2 | | | 43.1 |
| 6/7/2017 | 33.4 | | 44.4 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 31.5 | | 42.9 | 6.89 | | 30.9 | 3.52 | | 40.7 |
| 8/23/2017 | | | | | | | | | |
| 5/15/2018 | 34.8 | | 44.3 | 6.86 | | | 4.53 | | |
| 5/16/2018 | | | | | | 33.5 | | | 45.3 |
| 10/15/2018 | | | | 6.28 | | | 3.38 | | |
| 10/16/2018 | 35.6 | | | | | | | | 40.9 |
| 10/17/2018 | | | 41.8 | | | 32 | | | |
| 2/20/2019 | | | | | | | | 30.6 | |
| 2/21/2019 | | 52.3 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 38.3 | | 38.6 | | | | | | |
| 4/17/2019 | | | | 8.53 | | 32.3 | 3.86 | | 38.4 |
| 9/23/2019 | | | | | | | 5.43 | | |
| 9/24/2019 | | | | 3.26 | | 34.3 | | 29.7 | 48.4 |
| 9/25/2019 | 48.1 | 33.4 | | | | | | | |
| 3/16/2020 | | | | | | | 3 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 44 | | | 5.25 | 8.01 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 48.9 | | | | 34.1 | | | 41.7 |
| 3/25/2020 | | | | | | | | 31.1 | |
| 5/12/2020 | | | | | | | 2.95 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 8.2 | | 3.73 | | |
| 9/22/2020 | | | | | | 32 | | | 46.9 |
| 9/23/2020 | 45.9 | 44.8 | | 3.83 | | | | 29.3 | |
| 2/1/2021 | 45.8 | 48.9 | | | | | | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | 2.25 | 5.29 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | 0.724 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 4.51 | | | | | |
| 10/24/2016 | 0.635 | | | | | | |
| 10/25/2016 | | 4.92 | | | | | |
| 12/13/2016 | 0.714 | | | | | | |
| 12/14/2016 | | 3.5 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 0.722 | 3.75 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 3.63 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 0.686 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.646 | 3.3 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.569 | 3.24 | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | 0.634 | | | | | | |
| 8/22/2017 | | | | | | | |
| 8/23/2017 | | 6.6 | | | | | |
| 5/15/2018 | | 7.57 | | | | | |
| 5/16/2018 | 0.588 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.714 | 4.4 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 64.5 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | 46 | | |
| 2/27/2019 | | | | | | | 29.1 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.511 | 2.88 | | | | | |
| 9/23/2019 | | | | 80.6 | | | 29.6 |
| 9/24/2019 | | 2.47 | | | 46.5 | | |
| 9/25/2019 | 0.581 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 79.8 | | | |
| 3/18/2020 | | 2.35 | | | 44 | | |
| 3/23/2020 | | | 110 | | | | |
| 3/24/2020 | | | | | | 2.42 | |
| 3/25/2020 | 0.518 | | | | | | 28.6 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.493 (J) | | | | | | |
| 9/17/2020 | | | | 87.2 | 45.5 | 1.99 | |
| 9/21/2020 | | | | | | | 27.6 |
| 9/22/2020 | 0.503 | | | | | | |
| 9/23/2020 | | 1.96 | 119 | | | | |
| 2/1/2021 | 0.517 | | | | | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 42.4 | | |
| 2/3/2021 | | | | 75.6 | | | |
| 2/8/2021 | | 1.95 | | | | | |
| 2/9/2021 | | | 73.8 | | | | 28.1 |
| 2/10/2021 | | | | | | 2.11 | |
| 7/27/2021 | | | | 75.5 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 43.4 | | |
| 8/4/2021 | 0.564 | 1.76 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 27.2 |
| 8/11/2021 | | | 13.8 | | | | |
| 8/12/2021 | | | | | | 1.79 | |
| 2/8/2022 | | 1.98 | 37.2 | | | | |
| 2/14/2022 | | | | 74.4 | | | |
| 2/15/2022 | | | | | 42.4 | | 26.6 |
| 2/16/2022 | | | | | | 1.82 | |
| 2/22/2022 | 0.413 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 0.359 (J) | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 72.400002 | | | |
| 7/27/2022 | | | | | 41.900002 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 1.86 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 33 | | | | |
| 8/10/2022 | | 3.49 | | | | | 28.700001 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 3.45 | | | | | | |
| 3/18/2020 | | | | 56.6 | | | |
| 3/24/2020 | | 9.33 | | | | 149 | |
| 3/25/2020 | | | | | | | 4.11 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 2.93 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 4.12 | | | 61.1 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 9.56 | 205 | | | 142 | 2.82 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 199 | | | | |
| 2/3/2021 | | | | | | 134 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 60.8 | 49.8 | | |
| 2/9/2021 | | 10.6 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 3.16 | | | | | | 4.82 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 45.1 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 57.1 | | | |
| 8/4/2021 | 5.78 | 12.2 | | | | 133 | 4.58 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 197 | | | | |
| 2/8/2022 | | | | | 30.6 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 4.69 | | | | | | |
| 2/15/2022 | | | 203 | 57.6 | | | |
| 2/16/2022 | | | | | | 138 | |
| 2/21/2022 | | | | | | | 4.56 |
| 2/22/2022 | | 10.8 | | | | | |
| 7/20/2022 | 1.16 | | | | | | |
| 7/26/2022 | | | | | 36.700001 | | |
| 7/27/2022 | | | | 57.5 | | 133 | |
| 8/2/2022 | | | 211 | | | | |
| 8/3/2022 | | | | | | | 5.62 |
| 8/10/2022 | | 15.1 | | | | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-10R GS-AP-MW-11R GS-AP-MW-13R GS-AP-MW-14R GS-AP-MW-18R GS-AP-MW-18VR GS-AP-MW-1R

| | | | | | | |
|------------|------|------|------|------|-----|------|
| 8/2/2016 | | | | | | |
| 8/3/2016 | | | | | | |
| 9/20/2016 | | | | | | |
| 9/21/2016 | | | | | | |
| 10/24/2016 | | | | | | |
| 10/25/2016 | | | | | | |
| 10/26/2016 | | | | | | |
| 12/12/2016 | | | | | | |
| 12/13/2016 | | | | | | |
| 2/6/2017 | | | | | | |
| 3/27/2017 | | | | | | |
| 3/28/2017 | | | | | | |
| 4/24/2017 | | | | | | |
| 6/6/2017 | | | | | | |
| 6/7/2017 | | | | | | |
| 8/21/2017 | | | | | | |
| 5/14/2018 | | | | | | |
| 5/15/2018 | | | | | | |
| 10/15/2018 | | | | | | |
| 10/16/2018 | | | | | | |
| 4/16/2019 | | | | | | |
| 4/23/2019 | | | | | | |
| 9/23/2019 | | | | | | |
| 9/24/2019 | | | | | | |
| 3/17/2020 | | | | | | |
| 3/18/2020 | | | | | | |
| 3/23/2020 | | | | | | |
| 3/24/2020 | | | | | | |
| 8/27/2020 | | | | | | |
| 9/8/2020 | | | | | | |
| 9/15/2020 | | | | | | |
| 9/16/2020 | | | | | | |
| 9/17/2020 | | | | | | |
| 9/21/2020 | | | | | | |
| 9/22/2020 | | | | | | |
| 2/2/2021 | | | | | | |
| 2/3/2021 | | | | | | |
| 2/17/2021 | | | | | | |
| 7/27/2021 | | | | | | |
| 8/2/2021 | | | | | | |
| 8/3/2021 | | | | | | |
| 8/9/2021 | | | | | | |
| 8/10/2021 | | | | | | |
| 2/8/2022 | | | | | | |
| 2/9/2022 | | | | | | |
| 2/14/2022 | | | | | | |
| 2/15/2022 | | | | | | |
| 2/16/2022 | | | | | | |
| 2/21/2022 | | | | | | |
| 2/22/2022 | | | | 20.3 | 5.8 | |
| 2/28/2022 | | | 33.7 | | | |
| 3/1/2022 | 39.8 | 45.3 | 31.6 | | | 1.14 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | 56.799999 | | | | | |
| 7/20/2022 | | | 31.799999 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 0.888 |
| 8/3/2022 | 46.599998 | | | 35.299999 | 30.799999 | | |
| 8/9/2022 | | | | | | 2.49 | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 12.3 | 7.58 | 9.42 | | | | | |
| 2/23/2022 | 152 | | | | | 9.73 | 5.61 | | |
| 2/28/2022 | | | | | 2.59 | | | 28.7 | |
| 3/1/2022 | | | | | | | | | 97.3 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 22.1 | | | |
| 7/26/2022 | 138 | | | | 3.48 | | | 29 | |
| 7/27/2022 | | 65.099998 | | 33.900002 | | | | | |
| 8/2/2022 | | | | | | | | | 107 |
| 8/3/2022 | | | 13 | | | | | | |
| 8/8/2022 | | | | | | | 6.3 | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 69 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 1.2 |
| 2/28/2022 | | | |
| 3/1/2022 | 54 | | |
| 7/19/2022 | 52 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 63.099998 | |
| 8/2/2022 | | | 1.21 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 15.6 | | 2.6 | 6.47 | | 6.67 |
| 8/2/2016 | | | 2.91 | | | | | | |
| 8/3/2016 | 14.5 | | | | | | | | |
| 9/19/2016 | | | | | | 2.51 | 7.78 | | |
| 9/20/2016 | 12.9 | | 2.94 | 8.6 | | | | | |
| 9/21/2016 | | | | | | | | | 6.54 |
| 10/24/2016 | | | | | | | 7.29 | | 8.77 |
| 10/25/2016 | 12.2 | | 2.94 | 7.96 | | 2.53 | | | |
| 12/13/2016 | 10.4 | | 2.93 | | | 2.53 | 12.2 | | 6.16 |
| 12/14/2016 | | | | 6.94 | | | | | |
| 2/6/2017 | | | | | | | 7.68 | | |
| 2/7/2017 | | | | | | | | | 7.57 |
| 2/8/2017 | 8.77 | | 2.85 | 4.96 | | 2.5 | | | |
| 3/27/2017 | | | | | | | 9 | | |
| 3/28/2017 | | | | 5.2 | | | | | 5.9 |
| 3/29/2017 | 10 | | 3.4 | | | 2.9 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 10 | | |
| 4/26/2017 | 9.8 | | 3.7 | 6 | | 3.2 | | | 6.5 |
| 6/5/2017 | | | | | | | 10 | | |
| 6/6/2017 | | | | 4.9 | | 2.6 | | | 5.5 |
| 6/7/2017 | 8 | | 3.3 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 6.5 | | 3.4 | 5.3 | | 2.9 | 12 | | 6.5 |
| 8/23/2017 | | | | | | | | | |
| 5/15/2018 | 4.4 | | 3.2 | 3.8 | | | 13 | | |
| 5/16/2018 | | | | | | 3 | | | 6.6 |
| 10/15/2018 | | | | 6.6 | | | 10 | | |
| 10/16/2018 | 3.1 | | | | | | | | 6.2 |
| 10/17/2018 | | | 2.3 | | | 2.2 | | | |
| 2/20/2019 | | | | | | | | 3.56 | |
| 2/21/2019 | | 3.77 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 3.22 | | 3.23 | | | | | | |
| 4/17/2019 | | | | 5.2 | | 2.82 | 12.7 | | 7.27 |
| 9/23/2019 | | | | | | | 16.2 | | |
| 9/24/2019 | | | | 5.96 | | 2.9 | | 3.69 | 5.83 |
| 9/25/2019 | 6.68 | 3.84 | | | | | | | |
| 3/16/2020 | | | | | | | 9.95 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 4.22 | | | 8 | 108 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 4.46 | | | | 2.88 | | | 6.29 |
| 3/25/2020 | | | | | | | | 3.72 | |
| 5/12/2020 | | | | | | | 9.16 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 171 | | 13.8 | | |
| 9/22/2020 | | | | | | 2.94 | | | 6.6 |
| 9/23/2020 | 3.15 | 4.63 | | 6 | | | | 3.74 | |
| 2/1/2021 | 3.32 | 3.86 | | | | | | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | 6.15 | 28.1 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | 5.98 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 26.8 | | | | | |
| 10/24/2016 | 5.93 | | | | | | |
| 10/25/2016 | | 26 | | | | | |
| 12/13/2016 | 5.7 | | | | | | |
| 12/14/2016 | | 25.3 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 8.44 | 23.8 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 28 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 11 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 10 | 27 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 9.6 | 28 | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | 12 | | | | | | |
| 8/22/2017 | | | | | | | |
| 8/23/2017 | | 29 | | | | | |
| 5/15/2018 | | 27 | | | | | |
| 5/16/2018 | 12 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 20 | 31 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 2.58 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | 3.28 | | |
| 2/27/2019 | | | | | | | 2.87 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 9.5 | 32.3 | | | | | |
| 9/23/2019 | | | | 2.26 | | | 2.35 |
| 9/24/2019 | | 36 | | | 2.89 | | |
| 9/25/2019 | 12 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 2.62 | | | |
| 3/18/2020 | | 49.5 | | | 3.5 | | |
| 3/23/2020 | | | 981 | | | | |
| 3/24/2020 | | | | | 38 | | |
| 3/25/2020 | 9.7 | | | | | | 2.73 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 8.25 | | | | | | |
| 9/17/2020 | | | | 1.92 | 3.19 | 38.3 | |
| 9/21/2020 | | | | | | | 3.25 |
| 9/22/2020 | 6.33 | | | | | | |
| 9/23/2020 | | 56.9 | 1100 | | | | |
| 2/1/2021 | 8.42 | | | | | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 3.06 | | |
| 2/3/2021 | | | | 2.07 | | | |
| 2/8/2021 | | 39.8 | | | | | |
| 2/9/2021 | | | 592 | | | | 2.55 |
| 2/10/2021 | | | | | | 43.7 | |
| 7/27/2021 | | | | 2.48 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 2.94 | | |
| 8/4/2021 | 7.25 | 54.8 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 2.87 |
| 8/11/2021 | | | 162 | | | | |
| 8/12/2021 | | | | | | 36.3 | |
| 2/8/2022 | | 41.4 | 432 | | | | |
| 2/14/2022 | | | | 12.8 | | | |
| 2/15/2022 | | | | | 3.18 | | 2.59 |
| 2/16/2022 | | | | | | 34.3 | |
| 2/22/2022 | 6.05 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 4.42 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 12.9 | | | |
| 7/27/2022 | | | | | 3.3 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 30.5 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 327 | | | | |
| 8/10/2022 | | 44 | | | | | 2.33 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 29.4 | | | | | | |
| 3/18/2020 | | | | 6.02 | | | |
| 3/24/2020 | | 12.6 | | | | 3.35 | |
| 3/25/2020 | | | | | | | 90.6 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 27.2 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 38.5 | | | 6.63 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 24.8 | 30.4 | | | 7.07 | 78 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 36.8 | | | | |
| 2/3/2021 | | | | | | 10.1 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 6.44 | 9.18 | | |
| 2/9/2021 | | 28.1 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 24.3 | | | | | | 96.3 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 8.34 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 6.07 | | | |
| 8/4/2021 | 59.8 | 33.1 | | | | 9.75 | 69.4 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 28 | | | | |
| 2/8/2022 | | | | | 6.72 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 77.7 | | | | | | |
| 2/15/2022 | | | 18 | 6.67 | | | |
| 2/16/2022 | | | | | | 8.61 | |
| 2/21/2022 | | | | | | | 104 |
| 2/22/2022 | | 31 | | | | | |
| 7/20/2022 | 10.6 | | | | | | |
| 7/26/2022 | | | | | 7.24 | | |
| 7/27/2022 | | | | 7.18 | | 9.12 | |
| 8/2/2022 | | | 12.7 | | | | |
| 8/3/2022 | | | | | | | 84.5 |
| 8/10/2022 | | 59.299999 | | | | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | 38.1 | 3.52 | 15.3 | |
| 2/28/2022 | | | | | | | |
| 3/1/2022 | 37.5 | 5.08 | 19.2 | | | | 5.25 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | 5.38 | | | | | |
| 7/20/2022 | | | 17.6 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 5.38 |
| 8/3/2022 | 33.5 | | | 16.1 | 4.34 | | |
| 8/9/2022 | | | | | | 3.31 | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 253 | 32.1 | 55.9 | | | | | |
| 2/23/2022 | 3.21 | | | | | 155 | 54.2 | | |
| 2/28/2022 | | | | | 28.1 | | | 11.7 | |
| 3/1/2022 | | | | | | | | | 46.4 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 399 | | | |
| 7/26/2022 | 3.49 | | | | 32.099998 | | | 15.4 | |
| 7/27/2022 | | 635 | | 436 | | | | | |
| 8/2/2022 | | | | | | | | | 54.5 |
| 8/3/2022 | | | 127 | | | | | | |
| 8/8/2022 | | | | | | | 58.799999 | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 5.32 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 43.9 |
| 2/28/2022 | | | |
| 3/1/2022 | 65.9 | | |
| 7/19/2022 | 24.5 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 4.98 | |
| 8/2/2022 | | | 37 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 0.00209 (J) | | <0.00102 | <0.00102 | | <0.00102 |
| 8/2/2016 | | | <0.00102 | | | | | | |
| 8/3/2016 | <0.00102 | | | | | | | | |
| 9/19/2016 | | | | | | <0.00102 | <0.00102 | | |
| 9/20/2016 | <0.00102 | | <0.00102 | <0.00102 | | | | | |
| 9/21/2016 | | | | | | | | | <0.00102 |
| 10/24/2016 | | | | | | | <0.00102 | | <0.00102 |
| 10/25/2016 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 12/13/2016 | <0.00102 | | <0.00102 | | | <0.00102 | <0.00102 | | <0.00102 |
| 12/14/2016 | | | | <0.00102 | | | | | |
| 2/6/2017 | | | | | | | <0.00102 | | |
| 2/7/2017 | | | | | | | | | <0.00102 |
| 2/8/2017 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | |
| 3/27/2017 | | | | | | | <0.00102 | | |
| 3/28/2017 | | | | <0.00102 | | | | | <0.00102 |
| 3/29/2017 | <0.00102 | | <0.00102 | | | <0.00102 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | <0.00102 | | |
| 4/26/2017 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | | | <0.00102 |
| 6/5/2017 | | | | | | | <0.00102 | | |
| 6/6/2017 | | | | <0.00102 | | <0.00102 | | | <0.00102 |
| 6/7/2017 | <0.00102 | | <0.00102 | | | | | | |
| 2/19/2018 | | | | | | | <0.00102 | | |
| 2/20/2018 | <0.00102 | | <0.00102 | <0.00102 | | | | | |
| 2/21/2018 | | | | | | <0.00102 | | | <0.00102 |
| 5/15/2018 | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 | <0.00102 | | |
| 5/16/2018 | | | | | | <0.00102 | | | <0.00102 |
| 10/15/2018 | | | | <0.00102 | | <0.00102 | <0.00102 | | |
| 10/16/2018 | <0.00102 | | | | | | | | <0.00102 |
| 10/17/2018 | | | <0.00102 | | | <0.00102 | | | |
| 2/20/2019 | | | | | | | | <0.00102 | |
| 2/21/2019 | | <0.00102 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | <0.00102 | | <0.00102 | | | | | | |
| 4/17/2019 | | | | <0.00102 | | <0.00102 | <0.00102 | | <0.00102 |
| 9/23/2019 | | | | | | | <0.00102 | | |
| 9/24/2019 | | | | <0.00102 | | <0.00102 | | 0.00405 (J) | <0.00102 |
| 9/25/2019 | <0.00102 | 0.00202 (J) | | | | | | | |
| 3/16/2020 | | | | | | | <0.00102 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.00102 | | | <0.00102 | 0.00716 (J) | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00774 (J) | | | | <0.00102 | | | <0.00102 |
| 3/25/2020 | | | | | | | | <0.00102 | |
| 5/12/2020 | | | | | | | <0.00102 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.00239 (J) | | <0.00102 | | |
| 9/22/2020 | | | | | | <0.00102 | | | <0.00102 |
| 9/23/2020 | <0.00102 | 0.00362 (J) | | <0.00102 | | | | <0.00102 | |
| 2/1/2021 | <0.00102 | 0.00311 | | | | | | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|--------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.00102 | <0.00102 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.00102 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 0.00233 (J) | | | | | |
| 10/24/2016 | <0.00102 | | | | | | |
| 10/25/2016 | | 0.00204 (J) | | | | | |
| 12/13/2016 | <0.00102 | | | | | | |
| 12/14/2016 | | <0.00102 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | <0.00102 | <0.00102 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | <0.00102 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | <0.00102 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.00102 | <0.00102 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.00102 | <0.00102 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | 0.00219 (J) | | | | | |
| 2/21/2018 | <0.00102 | | | | | | |
| 5/15/2018 | | <0.00102 | | | | | |
| 5/16/2018 | <0.00102 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.00102 | <0.00102 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.00102 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | <0.00102 | | |
| 2/27/2019 | | | | | | | <0.00102 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.00102 | <0.00102 | | | | | |
| 9/23/2019 | | | | <0.00102 | | | 0.00295 (J) |
| 9/24/2019 | | <0.00102 | | | <0.00102 | | |
| 9/25/2019 | <0.00102 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.00102 | | | |
| 3/18/2020 | | <0.00102 | | | <0.00102 | | |
| 3/23/2020 | | | <0.00102 | | | | |
| 3/24/2020 | | | | | | <0.00102 | |
| 3/25/2020 | <0.00102 | | | | | | 0.00547 (J) |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.00102 | | | | | | |
| 9/17/2020 | | | | <0.00102 | <0.00102 | <0.00102 | |
| 9/21/2020 | | | | | | | 0.00804 (J) |
| 9/22/2020 | <0.00102 | | | | | | |
| 9/23/2020 | | <0.00102 | <0.00102 | | | | |
| 2/1/2021 | 0.000505 (J) | | | | | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 0.000382 (J) | | |
| 2/3/2021 | | | | 0.000222 (J) | | | |
| 2/8/2021 | | 0.000705 (J) | | | | | |
| 2/9/2021 | | | 0.000218 (J) | | | | <0.00102 |
| 2/10/2021 | | | | | | <0.00102 | |
| 7/27/2021 | | | | <0.00102 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.00028 (J) | | |
| 8/4/2021 | 0.00085 (J) | 0.00042 (J) | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 0.00037 (J) |
| 8/11/2021 | | | 0.00134 | | | | |
| 8/12/2021 | | | | | | 0.00035 (J) | |
| 2/8/2022 | | 0.0004 (J) | 0.00041 (J) | | | | |
| 2/14/2022 | | | | 0.00023 (J) | | | |
| 2/15/2022 | | | | | 0.00029 (J) | | 0.00031 (J) |
| 2/16/2022 | | | | | | 0.00062 (J) | |
| 2/22/2022 | 0.00044 (J) | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 0.000469 (J) | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 0.000302 (J) | | | |
| 7/27/2022 | | | | | 0.000446 (J) | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 0.000794 (J) | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 0.000378 (J) | | | | |
| 8/10/2022 | | 0.000827 (J) | | | | | 0.000311 (J) |

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.00102 | | | | | | |
| 3/18/2020 | | | | <0.00102 | | | |
| 3/24/2020 | | <0.00102 | | | | <0.00102 | |
| 3/25/2020 | | | | | | | <0.00102 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.00102 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.00102 | | | <0.00102 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | <0.00102 | <0.00102 | | | <0.00102 | <0.00102 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 0.000222 (J) | | | | |
| 2/3/2021 | | | | | | 0.000298 (J) | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 0.000235 (J) | <0.00102 | | |
| 2/9/2021 | | <0.00102 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 0.000271 (J) | | | | | | 0.000219 (J) |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 0.00031 (J) | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 0.00025 (J) | | | |
| 8/4/2021 | 0.00032 (J) | <0.00102 | | | | 0.00026 (J) | 0.00031 (J) |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 0.00032 (J) | | | | |
| 2/8/2022 | | | | | 0.00035 (J) | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.00102 | | | | | | |
| 2/15/2022 | | | <0.00102 | 0.00026 (J) | | | |
| 2/16/2022 | | | | | | <0.00102 | |
| 2/21/2022 | | | | | | | 0.00027 (J) |
| 2/22/2022 | | <0.00102 | | | | | |
| 7/20/2022 | 0.000451 (J) | | | | | | |
| 7/26/2022 | | | | | 0.000309 (J) | | |
| 7/27/2022 | | | | 0.000351 (J) | | 0.000306 (J) | |
| 8/2/2022 | | | 0.000337 (J) | | | | |
| 8/3/2022 | | | | | | | 0.000257 (J) |
| 8/10/2022 | | 0.000322 (J) | | | | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-10R GS-AP-MW-11R GS-AP-MW-13R GS-AP-MW-14R GS-AP-MW-18R GS-AP-MW-18VR GS-AP-MW-1R

8/2/2016
8/3/2016
9/20/2016
9/21/2016
10/24/2016
10/25/2016
10/26/2016
12/12/2016
12/13/2016
2/6/2017
3/27/2017
3/28/2017
4/24/2017
6/6/2017
6/7/2017
2/19/2018
5/14/2018
5/15/2018
10/15/2018
10/16/2018
4/16/2019
4/23/2019
9/23/2019
9/24/2019
3/17/2020
3/18/2020
3/23/2020
3/24/2020
8/27/2020
9/8/2020
9/15/2020
9/16/2020
9/17/2020
9/21/2020
9/22/2020
2/2/2021
2/3/2021
2/17/2021
7/27/2021
8/2/2021
8/3/2021
8/9/2021
8/10/2021
2/8/2022
2/9/2022
2/14/2022
2/15/2022
2/16/2022
2/21/2022
2/22/2022
2/28/2022
3/1/2022

0.00024 (J)

0.00026 (J)

0.00023 (J)

0.00062 (J)

0.00022 (J)

0.00052 (J)

0.00044 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 0.00029 (J) | 0.00035 (J) | 0.00025 (J) | | | | | |
| 2/23/2022 | 0.00066 (J) | | | | | 0.00051 (J) | 0.0002 (J) | | |
| 2/28/2022 | | | | | 0.00037 (J) | | | 0.00033 (J) | |
| 3/1/2022 | | | | | | | | | 0.00035 (J) |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 0.000397 (J) | | | |
| 7/26/2022 | 0.000389 (J) | | | | 0.000407 (J) | | | 0.000389 (J) | |
| 7/27/2022 | | 0.000354 (J) | | 0.000348 (J) | | | | | |
| 8/2/2022 | | | | | | | | | 0.00036 (J) |
| 8/3/2022 | | | 0.000803 (J) | | | | | | |
| 8/8/2022 | | | | | | | 0.000882 (J) | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|--------------|--------------|--------------|
| 2/21/2022 | | 0.00026 (J) | |
| 2/22/2022 | | | |
| 2/23/2022 | | | <0.00102 |
| 2/28/2022 | | | |
| 3/1/2022 | 0.00027 (J) | | |
| 7/19/2022 | 0.000384 (J) | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 0.000346 (J) | |
| 8/2/2022 | | | 0.000317 (J) |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 |
| 8/2/2016 | | | <0.000203 | | | | | | |
| 8/3/2016 | <0.000203 | | | | | | | | |
| 9/19/2016 | | | | | | <0.000203 | <0.000203 | | |
| 9/20/2016 | <0.000203 | | <0.000203 | <0.000203 | | | | | |
| 9/21/2016 | | | | | | | | | <0.000203 |
| 10/24/2016 | | | | | | | <0.000203 | | <0.000203 |
| 10/25/2016 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | |
| 12/13/2016 | <0.000203 | | <0.000203 | | | <0.000203 | <0.000203 | | <0.000203 |
| 12/14/2016 | | | | <0.000203 | | | | | |
| 2/6/2017 | | | | | | | <0.000203 | | |
| 2/7/2017 | | | | | | | | | <0.000203 |
| 2/8/2017 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | |
| 3/27/2017 | | | | | | | <0.000203 | | |
| 3/28/2017 | | | | <0.000203 | | | | | <0.000203 |
| 3/29/2017 | <0.000203 | | <0.000203 | | | <0.000203 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | <0.000203 | | |
| 4/26/2017 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | <0.000203 |
| 6/5/2017 | | | | | | | <0.000203 | | |
| 6/6/2017 | | | | <0.000203 | | <0.000203 | | | <0.000203 |
| 6/7/2017 | <0.000203 | | <0.000203 | | | | | | |
| 2/19/2018 | | | | | | | <0.000203 | | |
| 2/20/2018 | <0.000203 | | <0.000203 | <0.000203 | | | | | |
| 2/21/2018 | | | | | | <0.000203 | | | <0.000203 |
| 5/15/2018 | <0.000203 | | <0.000203 | <0.000203 | | | <0.000203 | | |
| 5/16/2018 | | | | | | <0.000203 | | | <0.000203 |
| 10/15/2018 | | | | <0.000203 | | | <0.000203 | | |
| 10/16/2018 | <0.000203 | | | | | | | | <0.000203 |
| 10/17/2018 | | | <0.000203 | | | <0.000203 | | | |
| 2/20/2019 | | | | | | | | <0.000203 | |
| 2/21/2019 | | <0.000203 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | <0.000203 | | <0.000203 | | | | | | |
| 4/17/2019 | | | | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 |
| 9/23/2019 | | | | | | | <0.000203 | | |
| 9/24/2019 | | | | <0.000203 | | <0.000203 | | <0.000203 | <0.000203 |
| 9/25/2019 | <0.000203 | <0.000203 | | | | | | | |
| 3/16/2020 | | | | | | | <0.000203 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.000203 | | | <0.000203 | <0.000203 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00277 (J) | | | | <0.000203 | | | <0.000203 |
| 3/25/2020 | | | | | | | | <0.000203 | |
| 5/12/2020 | | | | | | | <0.000203 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.000203 | | <0.000203 | | |
| 9/22/2020 | | | | | | <0.000203 | | | <0.000203 |
| 9/23/2020 | <0.000203 | <0.000203 | | <0.000203 | | | | <0.000203 | |
| 2/1/2021 | <0.000203 | 0.00129 | | | | | | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.000203 | <0.000203 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.000203 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | <0.000203 | | | | | |
| 10/24/2016 | <0.000203 | | | | | | |
| 10/25/2016 | | <0.000203 | | | | | |
| 12/13/2016 | <0.000203 | | | | | | |
| 12/14/2016 | | <0.000203 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | <0.000203 | <0.000203 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | <0.000203 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | <0.000203 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.000203 | <0.000203 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.000203 | <0.000203 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | <0.000203 | | | | | |
| 2/21/2018 | <0.000203 | | | | | | |
| 5/15/2018 | | <0.000203 | | | | | |
| 5/16/2018 | <0.000203 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.000203 | <0.000203 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.000203 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | <0.000203 | | |
| 2/27/2019 | | | | | | | <0.000203 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.000203 | <0.000203 | | | | | |
| 9/23/2019 | | | | <0.000203 | | | <0.000203 |
| 9/24/2019 | | <0.000203 | | | <0.000203 | | |
| 9/25/2019 | <0.000203 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.000203 | | | |
| 3/18/2020 | | <0.000203 | | | <0.000203 | | |
| 3/23/2020 | | | <0.000203 | | | | |
| 3/24/2020 | | | | | | <0.000203 | |
| 3/25/2020 | <0.000203 | | | | | | 0.00207 (J) |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.000203 | | | | | | |
| 9/17/2020 | | | | <0.000203 | <0.000203 | <0.000203 | |
| 9/21/2020 | | | | | | | 0.00357 (J) |
| 9/22/2020 | <0.000203 | | | | | | |
| 9/23/2020 | | <0.000203 | <0.000203 | | | | |
| 2/1/2021 | <0.000203 | | | | | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 0.000192 (J) | | |
| 2/3/2021 | | | | 0.000512 | | | |
| 2/8/2021 | | <0.000203 | | | | | |
| 2/9/2021 | | | <0.000203 | | | | <0.000203 |
| 2/10/2021 | | | | | | <0.000203 | |
| 7/27/2021 | | | | 0.00049 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.00024 | | |
| 8/4/2021 | <0.000203 | <0.000203 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | <0.000203 |
| 8/11/2021 | | | <0.000203 | | | | |
| 8/12/2021 | | | | | | <0.000203 | |
| 2/8/2022 | | <0.000203 | <0.000203 | | | | |
| 2/14/2022 | | | | 0.00052 | | | |
| 2/15/2022 | | | | | 0.00023 | | <0.000203 |
| 2/16/2022 | | | | | | 0.00011 (J) | |
| 2/22/2022 | <0.000203 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | <0.000203 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 0.000576 | | | |
| 7/27/2022 | | | | | 0.00029 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 6.8E-05 (J) | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | <0.000203 | | | | |
| 8/10/2022 | | <0.000203 | | | | | <0.000203 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.000203 | | | | | | |
| 3/18/2020 | | | | <0.000203 | | | |
| 3/24/2020 | | <0.000203 | | | | 0.00218 (J) | |
| 3/25/2020 | | | | | | | <0.000203 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.000203 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.000203 | | | <0.000203 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | <0.000203 | 0.0027 (J) | | | <0.000203 | <0.000203 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 0.002 | | | | |
| 2/3/2021 | | | | | | 0.000752 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 0.000585 | 0.00175 | | |
| 2/9/2021 | | <0.000203 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 0.000148 (J) | | | | | | <0.000203 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 0.00029 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 0.00085 | | | |
| 8/4/2021 | <0.000203 | <0.000203 | | | | 0.00062 | <0.000203 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 0.0011 | | | | |
| 2/8/2022 | | | | | 0.00378 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.000203 | | | | | | |
| 2/15/2022 | | | 0.00052 | 0.00102 | | | |
| 2/16/2022 | | | | | | 0.00045 | |
| 2/21/2022 | | | | | | | <0.000203 |
| 2/22/2022 | | <0.000203 | | | | | |
| 7/20/2022 | <0.000203 | | | | | | |
| 7/26/2022 | | | | | 0.00237 | | |
| 7/27/2022 | | | | 0.000979 | | 0.000429 | |
| 8/2/2022 | | | 0.000206 | | | | |
| 8/3/2022 | | | | | | | <0.000203 |
| 8/10/2022 | | <0.000203 | | | | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.00066 | 9E-05 (J) | |
| 2/28/2022 | | | | 0.00015 (J) | | | |
| 3/1/2022 | 0.00014 (J) | 0.00011 (J) | <0.000203 | | | | 9E-05 (J) |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | <0.000203 | | | | | |
| 7/20/2022 | | | <0.000203 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | <0.000203 |
| 8/3/2022 | 8.9E-05 (J) | | | <0.000203 | 0.000564 | | |
| 8/9/2022 | | | | | | 0.000256 | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|--------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | <0.000203 | 7E-05 (J) | 9E-05 (J) | | | | | |
| 2/23/2022 | 0.0002 | | | | | 0.00025 | <0.000203 | | |
| 2/28/2022 | | | | | <0.000203 | | | 0.00012 (J) | |
| 3/1/2022 | | | | | | | | | <0.000203 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 0.000249 | | | |
| 7/26/2022 | <0.000203 | | | | <0.000203 | | | 0.000112 (J) | |
| 7/27/2022 | | <0.000203 | | 0.000136 (J) | | | | | |
| 8/2/2022 | | | | | | | | | <0.000203 |
| 8/3/2022 | | | <0.000203 | | | | | | |
| 8/8/2022 | | | | | | | <0.000203 | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 0.00014 (J) | |
| 2/22/2022 | | | |
| 2/23/2022 | | | <0.000203 |
| 2/28/2022 | | | |
| 3/1/2022 | 9E-05 (J) | | |
| 7/19/2022 | <0.000203 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 0.000105 (J) | |
| 8/2/2022 | | | <0.000203 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 3:14 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 0.682 | | 0.363 (U) | 0.508 (U) | | 0.697 (U) |
| 8/2/2016 | | | 0.0177 (U) | | | | | | |
| 8/3/2016 | 1.08 | | | | | | | | |
| 9/19/2016 | | | | | | 0.435 (U) | 0.216 (U) | | |
| 9/20/2016 | 0.848 | | 0.725 | 1.2 | | | | | |
| 9/21/2016 | | | | | | | | | 1.79 |
| 10/24/2016 | | | | | | | 0.694 | | 1.53 |
| 10/25/2016 | 0.92 | | 0.494 (U) | 0.194 (U) | | 0.725 | | | |
| 12/13/2016 | 0.974 | | 0.39 (U) | | | 0.309 (U) | 0.614 | | 0.758 |
| 12/14/2016 | | | | 0.688 | | | | | |
| 2/6/2017 | | | | | | | -0.0283 (U) | | |
| 2/7/2017 | | | | | | | | | 0.473 |
| 2/8/2017 | 0.535 | | 0.455 (U) | 0.254 (U) | | 0.00772 (U) | | | |
| 3/27/2017 | | | | | | | 0.0736 (U) | | |
| 3/28/2017 | | | | -0.0411 (U) | | | | | 0.0705 (U) |
| 3/29/2017 | 0.194 (U) | | 0.251 (U) | | | 0.36 (U) | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 0.114 (U) | | |
| 4/26/2017 | 0.384 (U) | | 0.0762 (U) | 0.207 (U) | | 0.0175 (U) | | | 0.238 (U) |
| 6/5/2017 | | | | | | | 0.476 | | |
| 6/6/2017 | | | | 0.0618 (U) | | 0.464 | | | 0.909 |
| 6/7/2017 | 0.729 | | 0.32 (U) | | | | | | |
| 2/19/2018 | | | | | | | 0.322 (U) | | |
| 2/20/2018 | 0.242 (U) | | 0.465 | 0.0898 (U) | | | | | |
| 2/21/2018 | | | | | | 0.44 | | | 0.349 (U) |
| 5/15/2018 | 0.433 (U) | | 0.0571 (U) | 0.829 | | | 0.526 | | |
| 5/16/2018 | | | | | | 0.209 (U) | | | 1.12 |
| 10/15/2018 | | | | 0.708 | | | 0.199 (U) | | |
| 10/16/2018 | 0.421 (U) | | | | | | | | 0.856 |
| 10/17/2018 | | | 0.482 | | | 0.368 (U) | | | |
| 2/20/2019 | | | | | | | | 0.398 (U) | |
| 2/21/2019 | | 0.296 (U) | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 0.184 (U) | | 0.506 (U) | | | | | | |
| 4/17/2019 | | | | -0.11 (U) | | 0.121 (U) | 0.00935 (U) | | 0.507 (U) |
| 9/23/2019 | | | | | | | 0.983 | | |
| 9/24/2019 | | | | 0.951 | | -0.033 (U) | | 0.373 (U) | 0.664 |
| 9/25/2019 | 0.442 (U) | 1.03 | | | | | | | |
| 3/16/2020 | | | | | | | 0.185 (U) | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.605 | | | 0.939 | 0.566 (U) | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.877 (U) | | | | 0.636 | | | 1.07 |
| 3/25/2020 | | | | | | | | 0.0656 (U) | |
| 5/12/2020 | | | | | | | 0.0339 (U) | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.494 (U) | | 0.651 (U) | | |
| 9/22/2020 | | | | | | 0.59 (U) | | | 2.09 |
| 9/23/2020 | 0.811 (U) | 1.38 | | 0.547 (U) | | | | 0.542 (U) | |
| 2/1/2021 | 0.946 (U) | 0.944 (U) | | | | | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 3:14 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | 0.274 (U) | 0.665 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | 0.0478 (U) | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 0.532 (U) | | | | | |
| 10/24/2016 | 1.41 | | | | | | |
| 10/25/2016 | | 0.601 | | | | | |
| 12/13/2016 | 0.733 | | | | | | |
| 12/14/2016 | | 1.02 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 0.0206 (U) | -0.074 (U) | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 0.3 (U) | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 0.122 (U) | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.397 (U) | 0.982 (U) | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.0873 (U) | 0.312 (U) | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | 0.321 (U) | | | | | |
| 2/21/2018 | 0.562 | | | | | | |
| 5/15/2018 | | 1.7 | | | | | |
| 5/16/2018 | 1.44 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.736 | 0.586 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.0759 (U) | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | 0.9 | | |
| 2/27/2019 | | | | | | | 0.492 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.0905 (U) | 0.47 (U) | | | | | |
| 9/23/2019 | | | | 0.00709 (U) | | | 0.404 (U) |
| 9/24/2019 | | 1.08 | | | 1.23 | | |
| 9/25/2019 | 0.537 (U) | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 0.989 | | | |
| 3/18/2020 | | 0.732 | | | 0.788 | | |
| 3/23/2020 | | | 0.982 | | | | |
| 3/24/2020 | | | | | | -0.00194 (U) | |
| 3/25/2020 | 4 | | | | | | 0.707 (U) |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.289 (U) | | | | | | |
| 9/17/2020 | | | | 0.66 (U) | 0.298 (U) | -0.369 (U) | |
| 9/21/2020 | | | | | | | 2.05 |
| 9/22/2020 | 0.712 | | | | | | |
| 9/23/2020 | | 0.468 (U) | 0.563 (U) | | | | |
| 2/1/2021 | 0.518 (U) | | | | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 3:14 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 1.03 (U) | | |
| 2/3/2021 | | | | 0.767 (U) | | | |
| 2/8/2021 | | 0.667 (U) | | | | | |
| 2/9/2021 | | | 0.867 (U) | | | | 0.674 (U) |
| 2/10/2021 | | | | | | 0.422 (U) | |
| 7/27/2021 | | | | 0.124 (U) | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 1.3 (U) | | |
| 8/4/2021 | 0.502 (U) | 0.337 (U) | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 1.05 (U) |
| 8/11/2021 | | | 0.782 (U) | | | | |
| 8/12/2021 | | | | | | 0.129 (U) | |
| 2/8/2022 | | 0.529 (U) | 0.467 (U) | | | | |
| 2/14/2022 | | | | 0.153 (U) | | | |
| 2/15/2022 | | | | | 1.16 | | 1.19 |
| 2/16/2022 | | | | | | 0.763 (U) | |
| 2/22/2022 | 0.21 (U) | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 0.306 (U) | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 0.223 (U) | | | |
| 7/27/2022 | | | | | 0.833 (U) | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 0.73 (U) | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 0.458 (U) | | | | |
| 8/10/2022 | | 0.395 (U) | | | | | 0.178 (U) |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 3:14 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 4.33 | | | | | | |
| 3/18/2020 | | | | 0.64 | | | |
| 3/24/2020 | | 0.862 | | | | 0.0821 (U) | |
| 3/25/2020 | | | | | | | 0.678 (U) |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | -0.225 (U) | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | -0.125 (U) | | | 0.14 (U) | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 1.1 | 1.91 | | | 0.36 (U) | 0.0466 (U) |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 0.369 (U) | | | | |
| 2/3/2021 | | | | | | 0.475 (U) | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 0.409 (U) | 0.49 (U) | | |
| 2/9/2021 | | 0.746 (U) | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 0.322 (U) | | | | | | 0.629 (U) |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 0.759 (U) | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 0.453 (U) | | | |
| 8/4/2021 | 1.13 | 0.844 (U) | | | | 0.186 (U) | 0.949 (U) |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 0.91 (U) | | | | |
| 2/8/2022 | | | | | 0.267 (U) | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 7.37 | | | | | | |
| 2/15/2022 | | | 0.64 (U) | 0.256 (U) | | | |
| 2/16/2022 | | | | | | 0.275 (U) | |
| 2/21/2022 | | | | | | | 0.509 (U) |
| 2/22/2022 | | 0.341 (U) | | | | | |
| 7/20/2022 | 0.473 (U) | | | | | | |
| 7/26/2022 | | | | | 0.728 (U) | | |
| 7/27/2022 | | | | 0.42 (U) | | 1.06 (U) | |
| 8/2/2022 | | | 0.608 (U) | | | | |
| 8/3/2022 | | | | | | | 0.252 (U) |
| 8/10/2022 | | 0.411 (U) | | | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 3:14 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.961 (U) | 0.187 (U) | |
| 2/28/2022 | | | | 0.801 (U) | | | |
| 3/1/2022 | 1.05 (U) | 0.757 (U) | 0.656 (U) | | | | 0.836 (U) |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 3:14 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 0.645 (U) | 0.486 (U) | 0.495 (U) | | | | | |
| 2/23/2022 | 0.258 (U) | | | | | 0.57 (U) | 0.442 (U) | | |
| 2/28/2022 | | | | | 0.739 (U) | | | 0.174 (U) | |
| 3/1/2022 | | | | | | | | | 0.799 (U) |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 0.762 (U) | | | |
| 7/26/2022 | 0.603 (U) | | | | 0.5 (U) | | | 0.441 (U) | |
| 7/27/2022 | | 1.63 | | 0.857 (U) | | | | | |
| 8/2/2022 | | | | | | | | | 0.479 (U) |
| 8/3/2022 | | | 0.696 (U) | | | | | | |
| 8/8/2022 | | | | | | | 0.469 (U) | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 0.775 (U) | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 0.0974 (U) |
| 2/28/2022 | | | |
| 3/1/2022 | 0.663 (U) | | |
| 7/19/2022 | 0.803 (U) | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 0.14 (U) | |
| 8/2/2022 | | | 0.314 (U) |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 1.16 | | 0.117 (J) | 0.214 (J) | | 0.385 |
| 8/2/2016 | | | 0.161 (J) | | | | | | |
| 8/3/2016 | 0.656 | | | | | | | | |
| 9/19/2016 | | | | | | 0.078 (J) | 0.151 (J) | | |
| 9/20/2016 | 0.691 | | 0.122 (J) | 0.7 | | | | | |
| 9/21/2016 | | | | | | | | | 0.303 |
| 10/24/2016 | | | | | | | 0.086 (J) | | 0.24 (J) |
| 10/25/2016 | 0.588 | | 0.058 (J) | 0.544 | | 0.018 (J) | | | |
| 12/13/2016 | 0.545 | | 0.072 (J) | | | 0.035 (J) | 0.14 (J) | | 0.188 (J) |
| 12/14/2016 | | | | 0.51 | | | | | |
| 2/6/2017 | | | | | | | 0.2 | | |
| 2/7/2017 | | | | | | | | | 0.38 |
| 2/8/2017 | 0.79 | | 0.16 | 0.56 | | 0.1 | | | |
| 3/27/2017 | | | | | | | 0.21 | | |
| 3/28/2017 | | | | 0.59 | | | | | 0.32 |
| 3/29/2017 | 0.51 | | 0.14 | | | 0.08 (J) | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 0.2 | | |
| 4/26/2017 | 0.49 | | 0.16 | 0.72 | | 0.11 | | | 0.31 |
| 6/5/2017 | | | | | | | 0.2 | | |
| 6/6/2017 | | | | 0.65 | | 0.11 | | | 0.31 |
| 6/7/2017 | 0.43 | | 0.15 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 0.41 | | 0.18 | 0.9 | | 0.11 | 0.24 | | 0.35 |
| 8/23/2017 | | | | | | | | | |
| 2/19/2018 | | | | | | | 0.34 | | |
| 2/20/2018 | 0.27 | | 0.17 | 0.6 | | | | | |
| 2/21/2018 | | | | | | 0.11 | | | 0.39 |
| 5/15/2018 | 0.23 | | 0.17 | 0.57 | | | 0.27 | | |
| 5/16/2018 | | | | | | 0.12 | | | 0.36 |
| 10/15/2018 | | | | 0.77 | | | 0.23 | | |
| 10/16/2018 | 0.23 | | | | | | | | 0.37 |
| 10/17/2018 | | | 0.19 | | | 0.13 | | | |
| 2/20/2019 | | | | | | | | 0.239 | |
| 2/21/2019 | | 0.205 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 0.188 | | 0.197 | | | | | | |
| 4/17/2019 | | | | 0.463 | | 0.171 | 0.354 | | 0.27 |
| 9/23/2019 | | | | | | | 0.351 | | |
| 9/24/2019 | | | | 0.628 | | 0.124 | | 0.245 | 0.307 |
| 9/25/2019 | 0.168 | 0.185 | | | | | | | |
| 3/16/2020 | | | | | | | 0.261 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.122 | | | 0.647 | 0.243 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.155 | | | | 0.109 | | | 0.327 |
| 3/25/2020 | | | | | | | | 0.243 | |
| 5/12/2020 | | | | | | | 0.263 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.372 | | 0.371 | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | 1.76 | 0.282 (J) | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | 1.55 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 0.231 (J) | | | | | |
| 10/24/2016 | 1.29 | | | | | | |
| 10/25/2016 | | 0.137 (J) | | | | | |
| 12/13/2016 | 1.19 | | | | | | |
| 12/14/2016 | | 0.131 (J) | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 1.6 | 0.25 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 0.27 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 1.5 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 1.4 | 0.24 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 1.3 | 0.25 | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | 1.4 | | | | | | |
| 8/22/2017 | | | | | | | |
| 8/23/2017 | | 0.3 | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | 0.23 | | | | | |
| 2/21/2018 | 1.1 | | | | | | |
| 5/15/2018 | | 0.24 | | | | | |
| 5/16/2018 | 1.1 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 1 | 0.25 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 0.188 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | 0.19 | | |
| 2/27/2019 | | | | | | | 0.14 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.868 | 0.272 | | | | | |
| 9/23/2019 | | | | 0.144 | | | 0.146 |
| 9/24/2019 | | 0.209 | | | 0.201 | | |
| 9/25/2019 | 0.86 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 0.241 | | | |
| 3/18/2020 | | 0.234 | | | 0.206 | | |
| 3/23/2020 | | | 0.494 | | | | |
| 3/24/2020 | | | | | | 1.77 | |
| 3/25/2020 | 0.855 | | | | | | 0.131 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.777 | | | | | | |
| 9/17/2020 | | | | 0.117 | 0.217 | 1.93 | |
| 9/21/2020 | | | | | | | 0.151 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 9/22/2020 | 0.921 | | | | | | |
| 9/23/2020 | | 0.208 | 0.641 | | | | |
| 2/1/2021 | 0.865 | | | | | | |
| 2/2/2021 | | | | | 0.209 | | |
| 2/3/2021 | | | | 0.156 | | | |
| 2/8/2021 | | 0.203 | | | | | |
| 2/9/2021 | | | 0.546 | | | | 0.112 |
| 2/10/2021 | | | | | | 1.81 | |
| 7/27/2021 | | | | 0.13 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.208 | | |
| 8/4/2021 | 0.932 | 0.24 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 0.152 |
| 8/11/2021 | | | 0.41 | | | | |
| 8/12/2021 | | | | | | 2.01 | |
| 2/8/2022 | | 0.175 | 0.398 | | | | |
| 2/14/2022 | | | | 0.14 | | | |
| 2/15/2022 | | | | | 0.176 | | 0.101 |
| 2/16/2022 | | | | | | 1.89 | |
| 2/22/2022 | 0.819 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 0.752 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 0.0867 (J) | | | |
| 7/27/2022 | | | | | 0.215 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 2.07 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 0.406 | | | | |
| 8/10/2022 | | 0.186 | | | | | 0.131 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.214 | | | | | | |
| 3/18/2020 | | | | 0.165 | | | |
| 3/24/2020 | | 0.291 | | | | 0.13 | |
| 3/25/2020 | | | | | | | 0.204 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.224 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.209 | | | 0.16 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 0.28 | 0.114 | | | 0.121 | 0.216 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 0.123 | | | | |
| 2/3/2021 | | | | | | 0.131 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 0.138 | 0.152 | | |
| 2/9/2021 | | 0.243 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 0.22 | | | | | | 0.174 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 0.172 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 0.15 | | | |
| 8/4/2021 | 0.31 | 0.305 | | | | 0.203 | 0.289 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 0.113 | | | | |
| 2/8/2022 | | | | | 0.117 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.238 | | | | | | |
| 2/15/2022 | | | 0.0854 (J) | 0.125 | | | |
| 2/16/2022 | | | | | | 0.0837 (J) | |
| 2/21/2022 | | | | | | | 0.226 |
| 2/22/2022 | | 0.239 | | | | | |
| 7/20/2022 | 0.186 | | | | | | |
| 7/26/2022 | | | | | 0.121 (J) | | |
| 7/27/2022 | | | | 0.122 (J) | | 0.116 (J) | |
| 8/2/2022 | | | 0.151 | | | | |
| 8/3/2022 | | | | | | | 0.173 |
| 8/10/2022 | | 0.231 | | | | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-10R GS-AP-MW-11R GS-AP-MW-13R GS-AP-MW-14R GS-AP-MW-18R GS-AP-MW-18VR GS-AP-MW-1R

8/2/2016
8/3/2016
9/20/2016
9/21/2016
10/24/2016
10/25/2016
10/26/2016
12/12/2016
12/13/2016
2/6/2017
3/27/2017
3/28/2017
4/24/2017
6/6/2017
6/7/2017
8/21/2017
2/19/2018
5/14/2018
5/15/2018
10/15/2018
10/16/2018
4/16/2019
4/23/2019
9/23/2019
9/24/2019
3/17/2020
3/18/2020
3/23/2020
3/24/2020
8/27/2020
9/8/2020
9/15/2020
9/16/2020
9/17/2020
9/21/2020
9/22/2020
2/2/2021
2/3/2021
2/17/2021
7/27/2021
8/2/2021
8/3/2021
8/9/2021
8/10/2021
2/8/2022
2/9/2022
2/14/2022
2/15/2022
2/16/2022
2/21/2022
2/22/2022
2/28/2022

0.215

0.124

0.199

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 3/1/2022 | 0.278 | 0.143 | 0.122 | | | | 0.248 |
| 7/19/2022 | | 0.0992 (J) | | | | | |
| 7/20/2022 | | | 0.084 (J) | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 0.177 |
| 8/3/2022 | 0.265 | | | 0.145 | 0.0924 (J) | | |
| 8/9/2022 | | | | | | 0.133 | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 0.292 | 0.179 | 0.259 | | | | | |
| 2/23/2022 | 0.141 | | | | | 0.241 | 0.204 | | |
| 2/28/2022 | | | | | 0.194 | | | 0.121 | |
| 3/1/2022 | | | | | | | | | 0.147 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 0.231 | | | |
| 7/26/2022 | 0.0773 (J) | | | | 0.143 | | | 0.0601 (J) | |
| 7/27/2022 | | 0.263 | | 0.38 | | | | | |
| 8/2/2022 | | | | | | | | | 0.144 |
| 8/3/2022 | | | 0.237 | | | | | | |
| 8/8/2022 | | | | | | | 0.154 | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 0.207 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 0.226 |
| 2/28/2022 | | | |
| 3/1/2022 | 0.218 | | |
| 7/19/2022 | 0.245 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 0.157 | |
| 8/2/2022 | | | 0.249 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 |
| 8/2/2016 | | | <0.000203 | | | | | | |
| 8/3/2016 | <0.000203 | | | | | | | | |
| 9/19/2016 | | | | | | <0.000203 | <0.000203 | | |
| 9/20/2016 | <0.000203 | | <0.000203 | <0.000203 | | | | | |
| 9/21/2016 | | | | | | | | | <0.000203 |
| 10/24/2016 | | | | | | | <0.000203 | | <0.000203 |
| 10/25/2016 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | |
| 12/13/2016 | <0.000203 | | <0.000203 | | | <0.000203 | <0.000203 | | <0.000203 |
| 12/14/2016 | | | | <0.000203 | | | | | |
| 2/6/2017 | | | | | | | <0.000203 | | |
| 2/7/2017 | | | | | | | | | <0.000203 |
| 2/8/2017 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | |
| 3/27/2017 | | | | | | | <0.000203 | | |
| 3/28/2017 | | | | <0.000203 | | | | | <0.000203 |
| 3/29/2017 | <0.000203 | | <0.000203 | | | <0.000203 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | <0.000203 | | |
| 4/26/2017 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | <0.000203 |
| 6/5/2017 | | | | | | | <0.000203 | | |
| 6/6/2017 | | | | <0.000203 | | <0.000203 | | | <0.000203 |
| 6/7/2017 | <0.000203 | | <0.000203 | | | | | | |
| 2/19/2018 | | | | | | | <0.000203 | | |
| 2/20/2018 | <0.000203 | | <0.000203 | <0.000203 | | | | | |
| 2/21/2018 | | | | | | <0.000203 | | | <0.000203 |
| 5/15/2018 | <0.000203 | | <0.000203 | <0.000203 | | | <0.000203 | | |
| 5/16/2018 | | | | | | <0.000203 | | | <0.000203 |
| 10/15/2018 | | | | <0.000203 | | | <0.000203 | | |
| 10/16/2018 | <0.000203 | | | | | | | | <0.000203 |
| 10/17/2018 | | | <0.000203 | | | <0.000203 | | | |
| 2/20/2019 | | | | | | | | 0.00189 (J) | |
| 2/21/2019 | | <0.000203 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | <0.000203 | | <0.000203 | | | | | | |
| 4/17/2019 | | | | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 |
| 9/23/2019 | | | | | | | <0.000203 | | |
| 9/24/2019 | | | | <0.000203 | | <0.000203 | | <0.000203 | <0.000203 |
| 9/25/2019 | <0.000203 | <0.000203 | | | | | | | |
| 3/16/2020 | | | | | | | <0.000203 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.000203 | | | <0.000203 | <0.000203 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00279 (J) | | | | <0.000203 | | | <0.000203 |
| 3/25/2020 | | | | | | | | <0.000203 | |
| 5/12/2020 | | | | | | | <0.000203 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.000203 | | <0.000203 | | |
| 9/22/2020 | | | | | | <0.000203 | | | <0.000203 |
| 9/23/2020 | <0.000203 | 0.0014 (J) | | <0.000203 | | | | <0.000203 | |
| 2/1/2021 | <0.000203 | 0.0013 | | | | | | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.000203 | <0.000203 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.000203 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | <0.000203 | | | | | |
| 10/24/2016 | <0.000203 | | | | | | |
| 10/25/2016 | | <0.000203 | | | | | |
| 12/13/2016 | <0.000203 | | | | | | |
| 12/14/2016 | | <0.000203 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | <0.000203 | <0.000203 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | <0.000203 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | <0.000203 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.000203 | <0.000203 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.000203 | <0.000203 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | <0.000203 | | | | | |
| 2/21/2018 | <0.000203 | | | | | | |
| 5/15/2018 | | <0.000203 | | | | | |
| 5/16/2018 | <0.000203 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.000203 | <0.000203 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.000203 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | <0.000203 | | |
| 2/27/2019 | | | | | | | <0.000203 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.000203 | <0.000203 | | | | | |
| 9/23/2019 | | | | <0.000203 | | | 0.00109 (J) |
| 9/24/2019 | | <0.000203 | | | <0.000203 | | |
| 9/25/2019 | <0.000203 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.000203 | | | |
| 3/18/2020 | | <0.000203 | | | <0.000203 | | |
| 3/23/2020 | | | <0.000203 | | | | |
| 3/24/2020 | | | | | | <0.000203 | |
| 3/25/2020 | <0.000203 | | | | | | 0.0019 (J) |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.000203 | | | | | | |
| 9/17/2020 | | | | <0.000203 | <0.000203 | <0.000203 | |
| 9/21/2020 | | | | | | | 0.00309 (J) |
| 9/22/2020 | <0.000203 | | | | | | |
| 9/23/2020 | | <0.000203 | <0.000203 | | | | |
| 2/1/2021 | <0.000203 | | | | | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | <0.000203 | | |
| 2/3/2021 | | | | <0.000203 | | | |
| 2/8/2021 | | <0.000203 | | | | | |
| 2/9/2021 | | | <0.000203 | | | | <0.000203 |
| 2/10/2021 | | | | | | <0.000203 | |
| 7/27/2021 | | | | <0.000203 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.000203 | | |
| 8/4/2021 | <0.000203 | <0.000203 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | <0.000203 |
| 8/11/2021 | | | <0.000203 | | | | |
| 8/12/2021 | | | | | | <0.000203 | |
| 2/8/2022 | | <0.000203 | <0.000203 | | | | |
| 2/14/2022 | | | | <0.000203 | | | |
| 2/15/2022 | | | | | <0.000203 | | <0.000203 |
| 2/16/2022 | | | | | | 0.00018 (J) | |
| 2/22/2022 | <0.000203 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | <0.000203 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | <0.000203 | | | |
| 7/27/2022 | | | | | <0.000203 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 0.000206 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | <0.000203 | | | | |
| 8/10/2022 | | <0.000203 | | | | | <0.000203 |

Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.000203 | | | | | | |
| 3/18/2020 | | | | <0.000203 | | | |
| 3/24/2020 | | <0.000203 | | | | <0.000203 | |
| 3/25/2020 | | | | | | | <0.000203 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.000203 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.000203 | | | <0.000203 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | <0.000203 | <0.000203 | | | <0.000203 | <0.000203 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | <0.000203 | | | | |
| 2/3/2021 | | | | | | <0.000203 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | <0.000203 | <0.000203 | | |
| 2/9/2021 | | 8.23E-05 (J) | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 8.8E-05 (J) | | | | | | 0.000328 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | <0.000203 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | <0.000203 | | | |
| 8/4/2021 | <0.000203 | <0.000203 | | | | <0.000203 | 0.00027 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | <0.000203 | | | | |
| 2/8/2022 | | | | | <0.000203 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.000203 | | | | | | |
| 2/15/2022 | | | <0.000203 | <0.000203 | | | |
| 2/16/2022 | | | | | | <0.000203 | |
| 2/21/2022 | | | | | | | 0.00012 (J) |
| 2/22/2022 | | <0.000203 | | | | | |
| 7/20/2022 | <0.000203 | | | | | | |
| 7/26/2022 | | | | | <0.000203 | | |
| 7/27/2022 | | | | <0.000203 | | <0.000203 | |
| 8/2/2022 | | | <0.000203 | | | | |
| 8/3/2022 | | | | | | | <0.000203 |
| 8/10/2022 | | <0.000203 | | | | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 8E-05 (J) | 9E-05 (J) | |
| 2/28/2022 | | | | 0.00045 | | | |
| 3/1/2022 | 0.00013 (J) | <0.000203 | 0.00013 (J) | | | | 0.00022 |

Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|
| 7/19/2022 | | <0.000203 | | | | | |
| 7/20/2022 | | | <0.000203 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 0.000135 (J) |
| 8/3/2022 | <0.000203 | | | <0.000203 | <0.000203 | | |
| 8/9/2022 | | | | | | 0.000634 | |

Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | <0.000203 | 0.00028 | 0.00016 (J) | | | | | |
| 2/23/2022 | 0.00021 | | | | | 0.00014 (J) | 7E-05 (J) | | |
| 2/28/2022 | | | | | <0.000203 | | | <0.000203 | |
| 3/1/2022 | | | | | | | | | <0.000203 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 7.2E-05 (J) | | | |
| 7/26/2022 | <0.000203 | | | | <0.000203 | | | <0.000203 | |
| 7/27/2022 | | <0.000203 | | <0.000203 | | | | | |
| 8/2/2022 | | | | | | | | | <0.000203 |
| 8/3/2022 | | | 0.000166 (J) | | | | | | |
| 8/8/2022 | | | | | | | <0.000203 | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | <0.000203 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | <0.000203 |
| 2/28/2022 | | | |
| 3/1/2022 | <0.000203 | | |
| 7/19/2022 | <0.000203 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | <0.000203 | |
| 8/2/2022 | | | <0.000203 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 0.393 | | 0.036 (J) | 0.0479 (J) | | 0.0252 (J) |
| 8/2/2016 | | | 0.0121 (J) | | | | | | |
| 8/3/2016 | 0.0265 (J) | | | | | | | | |
| 9/19/2016 | | | | | | 0.0346 (J) | 0.0467 (J) | | |
| 9/20/2016 | 0.0225 (J) | | 0.0116 (J) | 0.144 | | | | | |
| 9/21/2016 | | | | | | | | | 0.0223 (J) |
| 10/24/2016 | | | | | | | 0.0462 (J) | | 0.0247 (J) |
| 10/25/2016 | 0.0217 (J) | | 0.0114 (J) | 0.152 | | 0.0353 (J) | | | |
| 12/13/2016 | 0.026 (J) | | 0.0116 (J) | | | 0.0361 (J) | 0.0296 (J) | | 0.0312 (J) |
| 12/14/2016 | | | | 0.136 | | | | | |
| 2/6/2017 | | | | | | | 0.064 | | |
| 2/7/2017 | | | | | | | | | 0.0406 (J) |
| 2/8/2017 | 0.0315 (J) | | 0.0118 (J) | 0.15 | | 0.0401 (J) | | | |
| 3/27/2017 | | | | | | | 0.0683 | | |
| 3/28/2017 | | | | 0.137 | | | | | 0.0309 (J) |
| 3/29/2017 | 0.0308 (J) | | 0.0118 (J) | | | 0.0379 (J) | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 0.0534 | | |
| 4/26/2017 | 0.0248 (J) | | <0.02 | 0.123 | | 0.0318 (J) | | | 0.0267 (J) |
| 6/5/2017 | | | | | | | 0.0574 | | |
| 6/6/2017 | | | | 0.123 | | 0.032 (J) | | | 0.0311 (J) |
| 6/7/2017 | 0.0234 (J) | | <0.02 | | | | | | |
| 2/19/2018 | | | | | | | 0.0481 (J) | | |
| 2/20/2018 | 0.058 | | <0.02 | 0.149 | | | | | |
| 2/21/2018 | | | | | | 0.0327 (J) | | | 0.0472 (J) |
| 5/15/2018 | 0.0489 (J) | | 0.0101 | 0.159 | | | 0.0551 | | |
| 5/16/2018 | | | | | | 0.0337 (J) | | | 0.0391 (J) |
| 10/15/2018 | | | | 0.297 | | | 0.0606 | | |
| 10/16/2018 | 0.0341 | | | | | | | | 0.0406 |
| 10/17/2018 | | | <0.02 | | | 0.0336 | | | |
| 2/20/2019 | | | | | | | | 0.0671 | |
| 2/21/2019 | | 0.0468 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 0.0261 | | 0.0101 (J) | | | | | | |
| 4/17/2019 | | | | 0.19 | | 0.0349 | 0.0574 | | 0.0429 |
| 9/23/2019 | | | | | | | 0.0583 | | |
| 9/24/2019 | | | | 0.469 | | 0.0362 | | 0.0809 | 0.0392 |
| 9/25/2019 | 0.028 | 0.0611 | | | | | | | |
| 3/16/2020 | | | | | | | 0.0665 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.0297 | | | 0.378 | 0.208 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.0462 | | | | 0.035 | | | 0.0417 |
| 3/25/2020 | | | | | | | | 0.0646 | |
| 5/12/2020 | | | | | | | 0.0602 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.116 | | 0.0579 | | |
| 9/22/2020 | | | | | | 0.0343 | | | 0.0435 |
| 9/23/2020 | 0.0279 | 0.0409 | | 0.414 | | | | 0.0574 | |
| 2/1/2021 | 0.0249 | 0.0384 | | | | | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | 0.0495 (J) | 0.145 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | 0.049 (J) | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 0.153 | | | | | |
| 10/24/2016 | 0.0488 (J) | | | | | | |
| 10/25/2016 | | 0.171 | | | | | |
| 12/13/2016 | 0.0483 (J) | | | | | | |
| 12/14/2016 | | 0.182 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 0.0644 | 0.178 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 0.161 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 0.0597 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.0459 (J) | 0.126 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.0491 (J) | 0.135 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | 0.158 | | | | | |
| 2/21/2018 | 0.0534 | | | | | | |
| 5/15/2018 | | 0.174 | | | | | |
| 5/16/2018 | 0.0451 (J) | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.0511 | 0.219 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | 0.031 | | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | 0.0282 | | | |
| 2/27/2019 | | | | | | 0.0966 | |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.0421 | 0.312 | | | | | |
| 9/23/2019 | | | 0.0324 | | | | 0.0945 |
| 9/24/2019 | | 0.276 | | 0.0275 | | | |
| 9/25/2019 | 0.0457 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | 0.0327 | | | | |
| 3/18/2020 | | 0.379 | | 0.0264 | | | |
| 3/23/2020 | | | 0.146 | | | | |
| 3/24/2020 | | | | | 0.0461 | | |
| 3/25/2020 | 0.0434 | | | | | | 0.0946 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.0409 | | | | | | |
| 9/17/2020 | | | 0.0333 | 0.0237 | 0.0449 | | |
| 9/21/2020 | | | | | | | 0.0958 |
| 9/22/2020 | 0.0395 | | | | | | |
| 9/23/2020 | | 0.179 | 0.137 | | | | |
| 2/1/2021 | 0.0445 | | | | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| Date | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 0.0247 | | |
| 2/3/2021 | | | | 0.0319 | | | |
| 2/8/2021 | | 0.239 | | | | | |
| 2/9/2021 | | | 0.124 | | | | 0.0928 |
| 2/10/2021 | | | | | | 0.0579 | |
| 7/27/2021 | | | | 0.0309 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.0249 | | |
| 8/4/2021 | 0.0443 | 0.213 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 0.0932 |
| 8/11/2021 | | | 0.048 | | | | |
| 8/12/2021 | | | | | | 0.0558 | |
| 2/8/2022 | | 0.0996 | 0.0835 | | | | |
| 2/14/2022 | | | | 0.0306 | | | |
| 2/15/2022 | | | | | 0.0239 | | 0.0917 |
| 2/16/2022 | | | | | | 0.0504 | |
| 2/22/2022 | 0.0354 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 0.033 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 0.032 | | | |
| 7/27/2022 | | | | | 0.0253 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 0.061 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 0.0789 | | | | |
| 8/10/2022 | | 0.0868 | | | | | 0.0924 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.0342 | | | | | | |
| 3/18/2020 | | | | 0.311 | | | |
| 3/24/2020 | | 0.0632 | | | | 0.0346 | |
| 3/25/2020 | | | | | | | 0.0505 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.0337 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.035 | | | 0.341 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 0.0591 | 0.0405 | | | 0.0333 | 0.0587 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 0.0571 | | | | |
| 2/3/2021 | | | | | | 0.0356 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 0.356 | 0.14 | | |
| 2/9/2021 | | 0.0676 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 0.039 | | | | | | 0.0723 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 0.178 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 0.369 | | | |
| 8/4/2021 | 0.0455 | 0.0672 | | | | 0.0348 | 0.0706 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 0.0567 | | | | |
| 2/8/2022 | | | | | 0.0817 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.0417 | | | | | | |
| 2/15/2022 | | | 0.0539 | 0.366 | | | |
| 2/16/2022 | | | | | | 0.0313 | |
| 2/21/2022 | | | | | | | 0.0579 |
| 2/22/2022 | | 0.0594 | | | | | |
| 7/20/2022 | 0.0303 | | | | | | |
| 7/26/2022 | | | | | 0.0954 | | |
| 7/27/2022 | | | | 0.413 | | 0.035 | |
| 8/2/2022 | | | 0.0705 | | | | |
| 8/3/2022 | | | | | | | 0.0749 |
| 8/10/2022 | | 0.0705 | | | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.02 | 0.0446 | |
| 2/28/2022 | | | | 0.0228 | | | |
| 3/1/2022 | 0.0349 | 0.0281 | 0.0272 | | | | 0.0309 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | 0.0289 | | | | | |
| 7/20/2022 | | | 0.027 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 0.0385 |
| 8/3/2022 | 0.0391 | | | 0.0265 | 0.00863 (J) | | |
| 8/9/2022 | | | | | | 0.059 | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 0.042 | 0.0316 | 0.0383 | | | | | |
| 2/23/2022 | 0.041 | | | | | 0.0489 | 0.0374 | | |
| 2/28/2022 | | | | | 0.0312 | | | 0.04 | |
| 3/1/2022 | | | | | | | | | 0.0644 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 0.071 | | | |
| 7/26/2022 | 0.0419 | | | | 0.0357 | | | 0.0429 | |
| 7/27/2022 | | 0.0935 | | 0.0378 | | | | | |
| 8/2/2022 | | | | | | | | | 0.0827 |
| 8/3/2022 | | | 0.0429 | | | | | | |
| 8/8/2022 | | | | | | | 0.0486 | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 0.0157 (J) | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 0.0653 |
| 2/28/2022 | | | |
| 3/1/2022 | 0.0361 | | |
| 7/19/2022 | 0.0356 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 0.0172 (J) | |
| 8/2/2022 | | | 0.0756 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 |
| 8/2/2016 | | | <0.0005 | | | | | | |
| 8/3/2016 | <0.0005 | | | | | | | | |
| 9/19/2016 | | | | | | <0.0005 | <0.0005 | | |
| 9/20/2016 | <0.0005 | | <0.0005 | <0.0005 | | | | | |
| 9/21/2016 | | | | | | | | | <0.0005 |
| 10/24/2016 | | | | | | | <0.0005 | | <0.0005 |
| 10/25/2016 | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 | | | |
| 12/13/2016 | <0.0005 | | <0.0005 | | | <0.0005 | <0.0005 | | <0.0005 |
| 12/14/2016 | | | | <0.0005 | | | | | |
| 2/6/2017 | | | | | | | <0.0005 | | |
| 2/7/2017 | | | | | | | | | <0.0005 |
| 2/8/2017 | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 | | | |
| 3/27/2017 | | | | | | | <0.0005 | | |
| 3/28/2017 | | | | <0.0005 | | | | | <0.0005 |
| 3/29/2017 | <0.0005 | | <0.0005 | | | <0.0005 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | <0.0005 | | |
| 4/26/2017 | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 | | | <0.0005 |
| 6/5/2017 | | | | | | | <0.0005 | | |
| 6/6/2017 | | | | <0.0005 | | <0.0005 | | | <0.0005 |
| 6/7/2017 | <0.0005 | | <0.0005 | | | | | | |
| 2/19/2018 | | | | | | | <0.0005 | | |
| 2/20/2018 | <0.0005 | | <0.0005 | <0.0005 | | | | | |
| 2/21/2018 | | | | | | <0.0005 | | | <0.0005 |
| 5/15/2018 | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | | |
| 5/16/2018 | | | | | | <0.0005 | | | <0.0005 |
| 10/15/2018 | | | | <0.0005 | | <0.0005 | <0.0005 | | |
| 10/16/2018 | <0.0005 | | | | | | | | <0.0005 |
| 10/17/2018 | | | <0.0005 | | | <0.0005 | | | |
| 2/20/2019 | | | | | | | | <0.0005 | |
| 2/21/2019 | | <0.0005 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | <0.0005 | | <0.0005 | | | | | | |
| 4/17/2019 | | | | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 |
| 9/23/2019 | | | | | | | <0.0005 | | |
| 9/24/2019 | | | | <0.0005 | | <0.0005 | | <0.0005 | <0.0005 |
| 9/25/2019 | <0.0005 | <0.0005 | | | | | | | |
| 3/16/2020 | | | | | | | <0.0005 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.0005 | | | <0.0005 | <0.0005 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <0.0005 | | | | <0.0005 | | | <0.0005 |
| 3/25/2020 | | | | | | | | <0.0005 | |
| 5/12/2020 | | | | | | | <0.0005 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.0005 | | <0.0005 | | |
| 9/22/2020 | | | | | | <0.0005 | | | <0.0005 |
| 9/23/2020 | <0.0005 | <0.0005 | | <0.0005 | | | | <0.0005 | |
| 2/1/2021 | <0.0005 | <0.0005 | | | | | | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.0005 | <0.0005 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.0005 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | <0.0005 | | | | | |
| 10/24/2016 | <0.0005 | | | | | | |
| 10/25/2016 | | <0.0005 | | | | | |
| 12/13/2016 | <0.0005 | | | | | | |
| 12/14/2016 | | <0.0005 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | <0.0005 | <0.0005 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | <0.0005 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | <0.0005 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.0005 | <0.0005 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.0005 | <0.0005 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | <0.0005 | | | | | |
| 2/21/2018 | <0.0005 | | | | | | |
| 5/15/2018 | | <0.0005 | | | | | |
| 5/16/2018 | <0.0005 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.0005 | <0.0005 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.0005 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | <0.0005 | | |
| 2/27/2019 | | | | | | | <0.0005 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.0005 | <0.0005 | | | | | |
| 9/23/2019 | | | | <0.0005 | | | <0.0005 |
| 9/24/2019 | | <0.0005 | | | <0.0005 | | |
| 9/25/2019 | <0.0005 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.0005 | | | |
| 3/18/2020 | | <0.0005 | | | <0.0005 | | |
| 3/23/2020 | | | <0.0005 | | | | |
| 3/24/2020 | | | | | | <0.0005 | |
| 3/25/2020 | <0.0005 | | | | | | <0.0005 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.0005 | | | | | | |
| 9/17/2020 | | | | <0.0005 | <0.0005 | <0.0005 | |
| 9/21/2020 | | | | | | | <0.0005 |
| 9/22/2020 | <0.0005 | | | | | | |
| 9/23/2020 | | <0.0005 | <0.0005 | | | | |
| 2/1/2021 | <0.0005 | | | | | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | <0.0005 | | |
| 2/3/2021 | | | | <0.0005 | | | |
| 2/8/2021 | | <0.0005 | | | | | |
| 2/9/2021 | | | <0.0005 | | | | <0.0005 |
| 2/10/2021 | | | | | | <0.0005 | |
| 7/27/2021 | | | | <0.0005 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.0005 | | |
| 8/4/2021 | <0.0005 | <0.0005 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | <0.0005 |
| 8/11/2021 | | | <0.0005 | | | | |
| 8/12/2021 | | | | | | <0.0005 | |
| 2/8/2022 | | <0.0005 | <0.0005 | | | | |
| 2/14/2022 | | | | <0.0005 | | | |
| 2/15/2022 | | | | | <0.0005 | | <0.0005 |
| 2/16/2022 | | | | | | <0.0005 | |
| 2/22/2022 | <0.0005 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | <0.0005 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | <0.0005 | | | |
| 7/27/2022 | | | | | <0.0005 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | <0.0005 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | <0.0005 | | | | |
| 8/10/2022 | | <0.0005 | | | | | <0.0005 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.0005 | | | | | | |
| 3/18/2020 | | | | <0.0005 | | | |
| 3/24/2020 | | <0.0005 | | | | <0.0005 | |
| 3/25/2020 | | | | | | | <0.0005 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.0005 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.0005 | | | <0.0005 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | <0.0005 | <0.0005 | | | <0.0005 | <0.0005 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | <0.0005 | | | | |
| 2/3/2021 | | | | | | <0.0005 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | <0.0005 | <0.0005 | | |
| 2/9/2021 | | <0.0005 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | <0.0005 | | | | | | <0.0005 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | <0.0005 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | <0.0005 | | | |
| 8/4/2021 | <0.0005 | <0.0005 | | | | <0.0005 | <0.0005 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | <0.0005 | | | | |
| 2/8/2022 | | | | | <0.0005 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.0005 | | | | | | |
| 2/15/2022 | | | <0.0005 | <0.0005 | | | |
| 2/16/2022 | | | | | | <0.0005 | |
| 2/21/2022 | | | | | | | <0.0005 |
| 2/22/2022 | | <0.0005 | | | | | |
| 7/20/2022 | <0.0005 | | | | | | |
| 7/26/2022 | | | | | <0.0005 | | |
| 7/27/2022 | | | | <0.0005 | | <0.0005 | |
| 8/2/2022 | | | <0.0005 | | | | |
| 8/3/2022 | | | | | | | <0.0005 |
| 8/10/2022 | | <0.0005 | | | | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-10R GS-AP-MW-11R GS-AP-MW-13R GS-AP-MW-14R GS-AP-MW-18R GS-AP-MW-18VR GS-AP-MW-1R

8/2/2016
8/3/2016
9/20/2016
9/21/2016
10/24/2016
10/25/2016
10/26/2016
12/12/2016
12/13/2016
2/6/2017
3/27/2017
3/28/2017
4/24/2017
6/6/2017
6/7/2017
2/19/2018
5/14/2018
5/15/2018
10/15/2018
10/16/2018
4/16/2019
4/23/2019
9/23/2019
9/24/2019
3/17/2020
3/18/2020
3/23/2020
3/24/2020
8/27/2020
9/8/2020
9/15/2020
9/16/2020
9/17/2020
9/21/2020
9/22/2020
2/2/2021
2/3/2021
2/17/2021
7/27/2021
8/2/2021
8/3/2021
8/9/2021
8/10/2021
2/8/2022
2/9/2022
2/14/2022
2/15/2022
2/16/2022
2/21/2022
2/22/2022
2/28/2022
3/1/2022

<0.0005

<0.0005

<0.0005

<0.0005

<0.0005

<0.0005

<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | <0.0005 | | | | | |
| 7/20/2022 | | | <0.0005 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | <0.0005 |
| 8/3/2022 | <0.0005 | | | <0.0005 | <0.0005 | | |
| 8/9/2022 | | | | | | <0.0005 | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | <0.0005 | <0.0005 | <0.0005 | | | | | |
| 2/23/2022 | <0.0005 | | | | | <0.0005 | <0.0005 | | |
| 2/28/2022 | | | | | <0.0005 | | | <0.0005 | |
| 3/1/2022 | | | | | | | | | <0.0005 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | <0.0005 | | | |
| 7/26/2022 | <0.0005 | | | | <0.0005 | | | <0.0005 | |
| 7/27/2022 | | <0.0005 | | <0.0005 | | | | | |
| 8/2/2022 | | | | | | | | | <0.0005 |
| 8/3/2022 | | | <0.0005 | | | | | | |
| 8/8/2022 | | | | | | | <0.0005 | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | <0.0005 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | <0.0005 |
| 2/28/2022 | | | |
| 3/1/2022 | <0.0005 | | |
| 7/19/2022 | <0.0005 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | <0.0005 | |
| 8/2/2022 | | | <0.0005 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 3:14 PM

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 0.142 | | <0.000203 | 0.00738 (J) | | 0.00752 (J) |
| 8/2/2016 | | | <0.000203 | | | | | | |
| 8/3/2016 | 0.0269 | | | | | | | | |
| 9/19/2016 | | | | | | <0.000203 | 0.00889 (J) | | |
| 9/20/2016 | 0.00762 (J) | | <0.000203 | 0.0683 | | | | | |
| 9/21/2016 | | | | | | | | | 0.0117 |
| 10/24/2016 | | | | | | | 0.00819 (J) | | 0.0198 |
| 10/25/2016 | 0.00456 (J) | | <0.000203 | 0.063 | | <0.000203 | | | |
| 12/13/2016 | 0.00411 (J) | | <0.000203 | | | <0.000203 | 0.0189 | | 0.00703 (J) |
| 12/14/2016 | | | | 0.0604 | | | | | |
| 2/6/2017 | | | | | | | 0.00852 (J) | | |
| 2/7/2017 | | | | | | | | | 0.0103 |
| 2/8/2017 | 0.00235 (J) | | <0.000203 | 0.0346 | | <0.000203 | | | |
| 3/27/2017 | | | | | | | 0.00592 (J) | | |
| 3/28/2017 | | | | 0.0331 | | | | | 0.00599 (J) |
| 3/29/2017 | <0.000203 | | <0.000203 | | | <0.000203 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 0.00644 (J) | | |
| 4/26/2017 | <0.000203 | | <0.000203 | 0.038 | | <0.000203 | | | 0.00845 (J) |
| 6/5/2017 | | | | | | | 0.00537 (J) | | |
| 6/6/2017 | | | | 0.0327 | | <0.000203 | | | 0.00624 (J) |
| 6/7/2017 | <0.000203 | | <0.000203 | | | | | | |
| 2/19/2018 | | | | | | | 0.0134 | | |
| 2/20/2018 | <0.000203 | | <0.000203 | 0.0362 | | | | | |
| 2/21/2018 | | | | | | <0.000203 | | | 0.00903 (J) |
| 5/15/2018 | <0.000203 | | <0.000203 | 0.0344 | | | 0.00789 (J) | | |
| 5/16/2018 | | | | | | <0.000203 | | | 0.00515 (J) |
| 10/15/2018 | | | | 0.0525 | | | 0.00376 (J) | | |
| 10/16/2018 | <0.000203 | | | | | | | | 0.00593 (J) |
| 10/17/2018 | | | <0.000203 | | | <0.000203 | | | |
| 2/20/2019 | | | | | | | | 0.00577 (J) | |
| 2/21/2019 | | 0.00253 (J) | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | <0.000203 | | <0.000203 | | | | | | |
| 4/17/2019 | | | | 0.029 | | <0.000203 | 0.00661 (J) | | 0.00703 (J) |
| 9/23/2019 | | | | | | | 0.011 | | |
| 9/24/2019 | | | | 0.0597 | | <0.000203 | | 0.00906 (J) | 0.00562 (J) |
| 9/25/2019 | <0.000203 | 0.00942 (J) | | | | | | | |
| 3/16/2020 | | | | | | | 0.00504 (J) | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 0.00444 (J) | | | 0.0673 | 0.0327 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 0.00454 (J) | | | | <0.000203 | | | 0.00605 (J) |
| 3/25/2020 | | | | | | | | 0.00508 (J) | |
| 5/12/2020 | | | | | | | 0.00436 (J) | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 0.0538 | | 0.00776 (J) | | |
| 9/22/2020 | | | | | | <0.000203 | | | 0.0063 (J) |
| 9/23/2020 | 0.00577 (J) | 0.00463 (J) | | 0.0744 | | | | 0.00664 (J) | |
| 2/1/2021 | 0.00792 | 0.00164 | | | | | | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|-------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.000203 | 0.0365 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.000203 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 0.0362 | | | | | |
| 10/24/2016 | <0.000203 | | | | | | |
| 10/25/2016 | | 0.0326 | | | | | |
| 12/13/2016 | <0.000203 | | | | | | |
| 12/14/2016 | | 0.0345 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 0.00359 (J) | 0.0419 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 0.0523 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 0.00485 (J) | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 0.00444 (J) | 0.0502 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 0.00489 (J) | 0.05 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | 0.0966 | | | | | |
| 2/21/2018 | 0.0112 | | | | | | |
| 5/15/2018 | | 0.0687 | | | | | |
| 5/16/2018 | 0.00547 (J) | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 0.00919 (J) | 0.061 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.000203 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | <0.000203 | | |
| 2/27/2019 | | | | | | | 0.00286 (J) |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 0.00293 (J) | 0.0885 | | | | | |
| 9/23/2019 | | | | <0.000203 | | | <0.000203 |
| 9/24/2019 | | 0.0613 | | | <0.000203 | | |
| 9/25/2019 | 0.00803 (J) | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.000203 | | | |
| 3/18/2020 | | 0.102 | | | <0.000203 | | |
| 3/23/2020 | | | 0.117 | | | | |
| 3/24/2020 | | | | | | 0.0176 | |
| 3/25/2020 | 0.00343 (J) | | | | | | <0.000203 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.00224 (J) | | | | | | |
| 9/17/2020 | | | | <0.000203 | <0.000203 | 0.0182 | |
| 9/21/2020 | | | | | | | <0.000203 |
| 9/22/2020 | 0.00308 (J) | | | | | | |
| 9/23/2020 | | 0.0404 | 0.12 | | | | |
| 2/1/2021 | 0.00427 | | | | | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 0.000563 | | |
| 2/3/2021 | | | | 0.000902 | | | |
| 2/8/2021 | | 0.0396 | | | | | |
| 2/9/2021 | | | 0.0983 | | | | 0.000207 |
| 2/10/2021 | | | | | | 0.0158 | |
| 7/27/2021 | | | | 0.0009 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 0.00052 | | |
| 8/4/2021 | 0.00168 | 0.0367 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 0.00016 (J) |
| 8/11/2021 | | | 0.0394 | | | | |
| 8/12/2021 | | | | | | 0.0125 | |
| 2/8/2022 | | 0.0153 | 0.0819 | | | | |
| 2/14/2022 | | | | 0.00097 | | | |
| 2/15/2022 | | | | | 0.00053 | | 7E-05 (J) |
| 2/16/2022 | | | | | | 0.00977 | |
| 2/22/2022 | 0.00327 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 0.00146 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 0.000783 | | | |
| 7/27/2022 | | | | | 0.00055 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 0.00758 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 0.0509 | | | | |
| 8/10/2022 | | 0.00802 | | | | | <0.000203 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 0.00571 (J) | | | | | | |
| 3/18/2020 | | | | 0.0158 | | | |
| 3/24/2020 | | 0.00445 (J) | | | | <0.000203 | |
| 3/25/2020 | | | | | | | <-0.000203 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 0.00475 (J) | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 0.0105 | | | 0.026 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 0.00423 (J) | 0.00293 (J) | | | <0.000203 | <-0.000203 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 0.00257 | | | | |
| 2/3/2021 | | | | | | 0.00174 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 0.0284 | 0.00288 | | |
| 2/9/2021 | | 0.00267 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 0.0054 | | | | | | 0.00292 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 0.0044 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 0.0286 | | | |
| 8/4/2021 | 0.017 | 0.00377 | | | | 0.00169 | 0.00385 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 0.00171 | | | | |
| 2/8/2022 | | | | | 0.00104 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 0.0189 | | | | | | |
| 2/15/2022 | | | 0.002 | 0.0331 | | | |
| 2/16/2022 | | | | | | 0.00155 | |
| 2/21/2022 | | | | | | | 0.00309 |
| 2/22/2022 | | 0.00322 | | | | | |
| 7/20/2022 | 0.00183 | | | | | | |
| 7/26/2022 | | | | | 0.000889 | | |
| 7/27/2022 | | | | 0.0351 | | 0.00131 | |
| 8/2/2022 | | | 0.00114 | | | | |
| 8/3/2022 | | | | | | | 0.00526 |
| 8/10/2022 | | 0.00406 | | | | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 0.00028 | 0.0336 | |
| 2/28/2022 | | | | 0.00097 | | | |
| 3/1/2022 | 0.00288 | 0.00014 (J) | 0.00061 | | | | 0.00143 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | <0.000203 | | | | | |
| 7/20/2022 | | | 0.000155 (J) | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 0.00102 |
| 8/3/2022 | 0.00163 | | | 0.000479 | 0.000529 | | |
| 8/9/2022 | | | | | | 0.0456 | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 0.00083 | 0.00536 | 0.00427 | | | | | |
| 2/23/2022 | 0.00013 (J) | | | | | 0.0191 | 0.0047 | | |
| 2/28/2022 | | | | | 0.00315 | | | 0.00165 | |
| 3/1/2022 | | | | | | | | | 0.00212 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 0.0489 | | | |
| 7/26/2022 | <0.000203 | | | | 0.00536 | | | 0.00213 | |
| 7/27/2022 | | 0.0101 | | 0.0268 | | | | | |
| 8/2/2022 | | | | | | | | | 0.00237 |
| 8/3/2022 | | | 0.0243 | | | | | | |
| 8/8/2022 | | | | | | | 0.00454 | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 0.00091 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 0.00678 |
| 2/28/2022 | | | |
| 3/1/2022 | 0.00313 | | |
| 7/19/2022 | 0.00308 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 0.000765 | |
| 8/2/2022 | | | 0.00955 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: pH (SU) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 11.74 | | 7.53 | 8.39 | | 8.05 |
| 8/2/2016 | | | 6.8 | | | | | | |
| 8/3/2016 | 7.36 | | | | | | | | |
| 9/19/2016 | | | | | | 7.5 | 8.42 | | |
| 9/20/2016 | 7.28 | | 6.8 | 10.33 | | | | | |
| 9/21/2016 | | | | | | | | | 8.14 |
| 10/24/2016 | | | | | | | 8.42 | | 8.55 |
| 10/25/2016 | 7.23 | | 6.85 | 10.24 | | 7.44 | | | |
| 12/13/2016 | 7.27 | | 6.8 | | | 7.45 | 8.43 | | 8.08 |
| 12/14/2016 | | | | 10.09 | | | | | |
| 2/6/2017 | | | | | | | 8.38 | | |
| 2/7/2017 | | | | | | | | | 8.61 |
| 2/8/2017 | 7.25 | | 6.76 | 9.75 | | 7.41 | | | |
| 3/27/2017 | | | | | | | 8.43 | | |
| 3/28/2017 | | | | 9.9 | | | | | 7.94 |
| 3/29/2017 | 7.34 | | 6.76 | | | 7.44 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 8.39 | | |
| 4/26/2017 | 7.19 | | 6.71 | 10.08 | | 7.47 | | | 8.26 |
| 6/5/2017 | | | | | | | 8.42 | | |
| 6/6/2017 | | | | 10.2 | | 7.37 | | | 8.23 |
| 6/7/2017 | 7.24 | | 6.71 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 7.31 | | 6.84 | 10.57 | | 7.48 | 8.4 | | 8.1 |
| 8/23/2017 | | | | | | | | | |
| 2/19/2018 | | | | | | | 8.33 | | |
| 2/20/2018 | 7.69 | | 6.77 | 10.63 | | | | | |
| 2/21/2018 | | | | | | 7.44 | | | 8.48 |
| 5/15/2018 | 7.69 | | 6.8 | 10.71 | | | 8.3 | | |
| 5/16/2018 | | | | | | 7.45 | | | 8.12 |
| 10/15/2018 | | | | 11.51 | | | 8.37 | | |
| 10/16/2018 | 7.51 | | | | | | | | 8.22 |
| 10/17/2018 | | | 6.67 | | | 7.41 | | | |
| 2/20/2019 | | | | | | | | 7.76 | |
| 2/21/2019 | | 7.46 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 7.41 | | 6.64 | | | | | | |
| 4/17/2019 | | | | 10.76 | | 7.33 | 8.36 | | 8.06 |
| 9/23/2019 | | | | | | | 8.37 | | |
| 9/24/2019 | | | | 11.7 | | 7.43 | | 7.65 | 7.8 |
| 9/25/2019 | 7.38 | 9.29 | | | | | | | |
| 3/16/2020 | | | | | | | 8.45 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 7.56 | | | 11.47 | 10.89 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 7.8 | | | | 7.46 | | | 7.93 |
| 3/25/2020 | | | | | | | | 7.63 | |
| 5/12/2020 | | | | | | | 8.42 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 10.07 | | 8.22 | | |

Time Series

Constituent: pH (SU) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | 9.18 | 10.26 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | 9.18 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 10.45 | | | | | |
| 10/24/2016 | 9.14 | | | | | | |
| 10/25/2016 | | 10.42 | | | | | |
| 12/13/2016 | 9.2 | | | | | | |
| 12/14/2016 | | 10.12 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 9.17 | 10.28 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 10.67 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 9.08 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 9.22 | 10.42 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 9.22 | 10.51 | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | 9.12 | | | | | | |
| 8/22/2017 | | | | | | | |
| 8/23/2017 | | 11.91 | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | 11.57 | | | | | |
| 2/21/2018 | 9.17 | | | | | | |
| 5/15/2018 | | 11.26 | | | | | |
| 5/16/2018 | 9.28 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 9.35 | 11.34 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 6.17 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | 7.04 | | |
| 2/27/2019 | | | | | | | 7.25 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 9.26 | 11.71 | | | | | |
| 9/23/2019 | | | | 5.76 | | | 7.25 |
| 9/24/2019 | | 11.24 | | | 6.59 | | |
| 9/25/2019 | 9.31 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 5.95 | | | |
| 3/18/2020 | | 11.37 | | | 7 | | |
| 3/23/2020 | | | 7.93 | | | | |
| 3/24/2020 | | | | | | 8.67 | |
| 3/25/2020 | 9.29 | | | | | | 7.24 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 9.43 | | | | | | |
| 9/17/2020 | | | | 5.74 | 7.02 | 8.83 | |
| 9/21/2020 | | | | | | | 7.25 |

Time Series

Constituent: pH (SU) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 9/22/2020 | 9.41 | | | | | | |
| 9/23/2020 | | 10.71 | 7.81 | | | | |
| 2/1/2021 | 9.31 | | | | | | |
| 2/2/2021 | | | | | 6.93 | | |
| 2/3/2021 | | | | 6.22 | | | |
| 2/8/2021 | | 10.69 | | | | | |
| 2/9/2021 | | | 7.87 | | | | 7.38 |
| 2/10/2021 | | | | | | 8.77 | |
| 7/27/2021 | | | | 5.65 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 6.94 | | |
| 8/4/2021 | 9.08 | 10.95 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 6.69 |
| 8/11/2021 | | | 8.28 | | | | |
| 8/12/2021 | | | | | | 8.78 | |
| 2/8/2022 | | 10.26 | 7.98 | | | | |
| 2/14/2022 | | | | 5.8 | | | |
| 2/15/2022 | | | | | 7 | | 6.82 |
| 2/16/2022 | | | | | | 8.5 | |
| 2/22/2022 | 9.42 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 9.6 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 5.73 | | | |
| 7/27/2022 | | | | | 6.98 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 8.55 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 7.9 | | | | |
| 8/10/2022 | | 9.26 | | | | | 7.13 |

Time Series

Constituent: pH (SU) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 8.44 | | | | | | |
| 3/18/2020 | | | | 7.2 | | | |
| 3/24/2020 | | 7.99 | | | | 6.28 | |
| 3/25/2020 | | | | | | | 8.24 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 8.52 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 8.18 | | | 7.22 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 7.96 | 6.64 | | | 6.51 | 8.66 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 6.55 | | | | |
| 2/3/2021 | | | | | | 6.47 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 7.36 | 6.77 | | |
| 2/9/2021 | | 8.06 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 8.36 | | | | | | 8.72 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 6.86 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 6.97 | | | |
| 8/4/2021 | 8.37 | 7.75 | | | | 6.41 | 8.75 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 6.56 | | | | |
| 2/8/2022 | | | | | 6.66 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 8.22 | | | | | | |
| 2/15/2022 | | | 6.6 | 7.35 | | | |
| 2/16/2022 | | | | | | 6.54 | |
| 2/21/2022 | | | | | | | 8.58 |
| 2/22/2022 | | 7.89 | | | | | |
| 7/20/2022 | 8.05 | | | | | | |
| 7/26/2022 | | | | | 6.19 | | |
| 7/27/2022 | | | | 7.16 | | 6.59 | |
| 8/2/2022 | | | 6.47 | | | | |
| 8/3/2022 | | | | | | | 8.51 |
| 8/10/2022 | | 7.49 | | | | | |

Time Series

Constituent: pH (SU) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-10R GS-AP-MW-11R GS-AP-MW-13R GS-AP-MW-14R GS-AP-MW-18R GS-AP-MW-18VR GS-AP-MW-1R

8/2/2016
8/3/2016
9/20/2016
9/21/2016
10/24/2016
10/25/2016
10/26/2016
12/12/2016
12/13/2016
2/6/2017
3/27/2017
3/28/2017
4/24/2017
6/6/2017
6/7/2017
8/21/2017
2/19/2018
5/14/2018
5/15/2018
10/15/2018
10/16/2018
4/16/2019
4/23/2019
9/23/2019
9/24/2019
3/17/2020
3/18/2020
3/23/2020
3/24/2020
8/27/2020
9/8/2020
9/15/2020
9/16/2020
9/17/2020
9/21/2020
9/22/2020
2/2/2021
2/3/2021
2/17/2021
7/27/2021
8/2/2021
8/3/2021
8/9/2021
8/10/2021
2/8/2022
2/9/2022
2/14/2022
2/15/2022
2/16/2022
2/21/2022
2/22/2022
2/28/2022

7.04

6.29

7.88

Time Series

Constituent: pH (SU) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 3/1/2022 | 6.87 | 6.68 | 6.47 | | | | 8.86 |
| 7/19/2022 | | 6.13 | | | | | |
| 7/20/2022 | | | 6.39 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 8.35 |
| 8/3/2022 | 6.7 | | 6.44 | 6.46 | | | |
| 8/9/2022 | | | | | | 7.93 | |

Time Series

Constituent: pH (SU) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 7.83 | 8 | 7.35 | | | | | |
| 2/23/2022 | 7.38 | | | | | 7.45 | 7.86 | | |
| 2/28/2022 | | | | | 7.88 | | | 7.15 | |
| 3/1/2022 | | | | | | | | | 6.77 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 7.41 | | | |
| 7/26/2022 | 7.1 | | | | 7.88 | | | 7.32 | |
| 7/27/2022 | | 7.44 | | 7.14 | | | | | |
| 8/2/2022 | | | | | | | | | 6.72 |
| 8/3/2022 | | | 7.88 | | | | | | |
| 8/8/2022 | | | | | | | 7.74 | | |

Time Series

Constituent: pH (SU) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 7.37 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 8.69 |
| 2/28/2022 | | | |
| 3/1/2022 | 6.4 | | |
| 7/19/2022 | 6.31 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 7.18 | |
| 8/2/2022 | | | 8.67 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 |
| 8/2/2016 | | | <0.001015 | | | | | | |
| 8/3/2016 | <0.001015 | | | | | | | | |
| 9/19/2016 | | | | | | <0.001015 | <0.001015 | | |
| 9/20/2016 | <0.001015 | | <0.001015 | <0.001015 | | | | | |
| 9/21/2016 | | | | | | | | | <0.001015 |
| 10/24/2016 | | | | | | | <0.001015 | | <0.001015 |
| 10/25/2016 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 | | | |
| 12/13/2016 | <0.001015 | | <0.001015 | | | <0.001015 | <0.001015 | | <0.001015 |
| 12/14/2016 | | | | <0.001015 | | | | | |
| 2/6/2017 | | | | | | | <0.001015 | | |
| 2/7/2017 | | | | | | | | | <0.001015 |
| 2/8/2017 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 | | | |
| 3/27/2017 | | | | | | | <0.001015 | | |
| 3/28/2017 | | | | <0.001015 | | | | | <0.001015 |
| 3/29/2017 | <0.001015 | | <0.001015 | | | <0.001015 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | <0.001015 | | |
| 4/26/2017 | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 | | | <0.001015 |
| 6/5/2017 | | | | | | | <0.001015 | | |
| 6/6/2017 | | | | <0.001015 | | <0.001015 | | | <0.001015 |
| 6/7/2017 | <0.001015 | | <0.001015 | | | | | | |
| 2/19/2018 | | | | | | | <0.001015 | | |
| 2/20/2018 | <0.001015 | | <0.001015 | <0.001015 | | | | | |
| 2/21/2018 | | | | | | <0.001015 | | | <0.001015 |
| 5/15/2018 | <0.001015 | | <0.001015 | <0.001015 | | | <0.001015 | | |
| 5/16/2018 | | | | | | <0.001015 | | | <0.001015 |
| 10/15/2018 | | | | <0.001015 | | | <0.001015 | | |
| 10/16/2018 | <0.001015 | | | | | | | | <0.001015 |
| 10/17/2018 | | | <0.001015 | | | <0.001015 | | | |
| 2/20/2019 | | | | | | | | <0.001015 | |
| 2/21/2019 | | <0.001015 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | <0.001015 | | <0.001015 | | | | | | |
| 4/17/2019 | | | | <0.001015 | | <0.001015 | <0.001015 | | <0.001015 |
| 9/23/2019 | | | | | | | <0.001015 | | |
| 9/24/2019 | | | | <0.001015 | | <0.001015 | | <0.001015 | <0.001015 |
| 9/25/2019 | <0.001015 | <0.001015 | | | | | | | |
| 3/16/2020 | | | | | | | <0.001015 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.001015 | | | <0.001015 | <0.001015 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <0.001015 | | | | <0.001015 | | | <0.001015 |
| 3/25/2020 | | | | | | | | <0.001015 | |
| 5/12/2020 | | | | | | | <0.001015 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.001015 | | <0.001015 | | |
| 9/22/2020 | | | | | | <0.001015 | | | <0.001015 |
| 9/23/2020 | <0.001015 | <0.001015 | | <0.001015 | | | | <0.001015 | |
| 2/1/2021 | <0.001015 | <0.001015 | | | | | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.001015 | <0.001015 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.001015 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | <0.001015 | | | | | |
| 10/24/2016 | <0.001015 | | | | | | |
| 10/25/2016 | | <0.001015 | | | | | |
| 12/13/2016 | <0.001015 | | | | | | |
| 12/14/2016 | | <0.001015 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | <0.001015 | <0.001015 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | <0.001015 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | <0.001015 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.001015 | <0.001015 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.001015 | <0.001015 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | <0.001015 | | | | | |
| 2/21/2018 | <0.001015 | | | | | | |
| 5/15/2018 | | <0.001015 | | | | | |
| 5/16/2018 | <0.001015 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.001015 | <0.001015 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.001015 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | <0.001015 | | |
| 2/27/2019 | | | | | | | <0.001015 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.001015 | <0.001015 | | | | | |
| 9/23/2019 | | | | <0.001015 | | | <0.001015 |
| 9/24/2019 | | <0.001015 | | | <0.001015 | | |
| 9/25/2019 | <0.001015 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.001015 | | | |
| 3/18/2020 | | <0.001015 | | | <0.001015 | | |
| 3/23/2020 | | | <0.001015 | | | | |
| 3/24/2020 | | | | | | <0.001015 | |
| 3/25/2020 | <0.001015 | | | | | | <0.001015 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.001015 | | | | | | |
| 9/17/2020 | | | | <0.001015 | <0.001015 | 0.00636 (J) | |
| 9/21/2020 | | | | | | | <0.001015 |
| 9/22/2020 | <0.001015 | | | | | | |
| 9/23/2020 | | <0.001015 | <0.001015 | | | | |
| 2/1/2021 | <0.001015 | | | | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | <0.001015 | | |
| 2/3/2021 | | | | <0.001015 | | | |
| 2/8/2021 | | <0.001015 | | | | | |
| 2/9/2021 | | | <0.001015 | | | | <0.001015 |
| 2/10/2021 | | | | | | <0.001015 | |
| 7/27/2021 | | | | <0.001015 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.001015 | | |
| 8/4/2021 | <0.001015 | <0.001015 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | <0.001015 |
| 8/11/2021 | | | <0.001015 | | | | |
| 8/12/2021 | | | | | | <0.001015 | |
| 2/8/2022 | | <0.001015 | <0.001015 | | | | |
| 2/14/2022 | | | | <0.001015 | | | |
| 2/15/2022 | | | | | <0.001015 | | <0.001015 |
| 2/16/2022 | | | | | | <0.001015 | |
| 2/22/2022 | <0.001015 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | <0.001015 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | <0.001015 | | | |
| 7/27/2022 | | | | | <0.001015 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | <0.001015 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | <0.001015 | | | | |
| 8/10/2022 | | <0.001015 | | | | | <0.001015 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.001015 | | | | | | |
| 3/18/2020 | | | | <0.001015 | | | |
| 3/24/2020 | | <0.001015 | | | | <0.001015 | |
| 3/25/2020 | | | | | | | <0.001015 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.001015 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.001015 | | | <0.001015 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | <0.001015 | <0.001015 | | | <0.001015 | <0.001015 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | <0.001015 | | | | |
| 2/3/2021 | | | | | | <0.001015 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | <0.001015 | <0.001015 | | |
| 2/9/2021 | | <0.001015 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | <0.001015 | | | | | | <0.001015 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | <0.001015 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | <0.001015 | | | |
| 8/4/2021 | <0.001015 | <0.001015 | | | | <0.001015 | <0.001015 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | <0.001015 | | | | |
| 2/8/2022 | | | | | <0.001015 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.001015 | | | | | | |
| 2/15/2022 | | | <0.001015 | <0.001015 | | | |
| 2/16/2022 | | | | | | <0.001015 | |
| 2/21/2022 | | | | | | | <0.001015 |
| 2/22/2022 | | <0.001015 | | | | | |
| 7/20/2022 | <0.001015 | | | | | | |
| 7/26/2022 | | | | | <0.001015 | | |
| 7/27/2022 | | | | <0.001015 | | <0.001015 | |
| 8/2/2022 | | | <0.001015 | | | | |
| 8/3/2022 | | | | | | | <0.001015 |
| 8/10/2022 | | <0.001015 | | | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.001015 | <0.001015 | |
| 2/28/2022 | | | | <0.001015 | | | |
| 3/1/2022 | <0.001015 | <0.001015 | <0.001015 | | | | <0.001015 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | <0.001015 | | | | | |
| 7/20/2022 | | | <0.001015 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | <0.001015 |
| 8/3/2022 | <0.001015 | | | <0.001015 | <0.001015 | | |
| 8/9/2022 | | | | | | <0.001015 | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | <0.001015 | <0.001015 | <0.001015 | | | | | |
| 2/23/2022 | <0.001015 | | | | | <0.001015 | <0.001015 | | |
| 2/28/2022 | | | | | <0.001015 | | | <0.001015 | |
| 3/1/2022 | | | | | | | | | <0.001015 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | <0.001015 | | | |
| 7/26/2022 | <0.001015 | | | | <0.001015 | | | <0.001015 | |
| 7/27/2022 | | <0.001015 | | <0.001015 | | | | | |
| 8/2/2022 | | | | | | | | | <0.001015 |
| 8/3/2022 | | | <0.001015 | | | | | | |
| 8/8/2022 | | | | | | | <0.001015 | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | <0.001015 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | <0.001015 |
| 2/28/2022 | | | |
| 3/1/2022 | <0.001015 | | |
| 7/19/2022 | <0.001015 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | <0.001015 | |
| 8/2/2022 | | | <0.001015 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 102 | | 13.4 | 9.56 | | 9.02 |
| 8/2/2016 | | | 12 | | | | | | |
| 8/3/2016 | 19.2 | | | | | | | | |
| 9/19/2016 | | | | | | 12.9 | 12.7 | | |
| 9/20/2016 | 1.42 | | 11.2 | 53.3 | | | | | |
| 9/21/2016 | | | | | | | | | 8.38 |
| 10/24/2016 | | | | | | | 8.58 | | 18.5 |
| 10/25/2016 | <1 | | 10.1 | 49.8 | | 11.6 | | | |
| 12/13/2016 | 3.21 | | 11.4 | | | 12.7 | 31 | | 7.4 |
| 12/14/2016 | | | | 40.9 | | | | | |
| 2/6/2017 | | | | | | | 14.7 | | |
| 2/7/2017 | | | | | | | | | 8.16 |
| 2/8/2017 | 3.3 | | 10.9 | 25 | | 12.2 | | | |
| 3/27/2017 | | | | | | | 14 | | |
| 3/28/2017 | | | | 27 | | | | | 6.4 |
| 3/29/2017 | 3.8 (J) | | 11 | | | 12 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 22 | | |
| 4/26/2017 | 1.4 (J) | | 11 | 29 | | 13 | | | 4.6 (J) |
| 6/5/2017 | | | | | | | 30 | | |
| 6/6/2017 | | | | 23 | | 12 | | | 5.2 |
| 6/7/2017 | 1.7 (J) | | 11 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 4.2 (J) | | 11 | 22 | | 12 | 42 | | 5.3 |
| 8/23/2017 | | | | | | | | | |
| 5/15/2018 | 14 | | 11 | 13 | | | 54 | | |
| 5/16/2018 | | | | | | 13 | | | 6 |
| 10/15/2018 | | | | 14 | | | 34 | | |
| 10/16/2018 | 13 | | | | | | | | 5.6 |
| 10/17/2018 | | | 12 | | | 13 | | | |
| 2/20/2019 | | | | | | | | 15.2 | |
| 2/21/2019 | | <1 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 13.3 | | 12.1 | | | | | | |
| 4/17/2019 | | | | 9.02 | | 14.1 | 76.6 | | 14.3 |
| 9/23/2019 | | | | | | | 124 | | |
| 9/24/2019 | | | | 12.4 | | 14.1 | | 11.8 | 13.8 |
| 9/25/2019 | 25.5 | 1.61 | | | | | | | |
| 3/16/2020 | | | | | | | 48.6 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 20.8 | | | 15.9 | 261 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <1 | | | | 14.1 | | | 15.2 |
| 3/25/2020 | | | | | | | | 9.69 | |
| 5/12/2020 | | | | | | | 44.4 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 348 | | 104 | | |
| 9/22/2020 | | | | | | 13.6 | | | 16.9 |
| 9/23/2020 | 19.1 | 6.56 | | 13.2 | | | | 11.1 | |
| 2/1/2021 | 18.7 | <1 | | | | | | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | 2.87 | 9.14 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | 1.22 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 8.71 | | | | | |
| 10/24/2016 | <1 | | | | | | |
| 10/25/2016 | | 8.54 | | | | | |
| 12/13/2016 | <1 | | | | | | |
| 12/14/2016 | | 11.5 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 19.4 | 17 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 25 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 31 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 29 | 28 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 37 | 33 | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | 55 | | | | | | |
| 8/22/2017 | | | | | | | |
| 8/23/2017 | | 43 | | | | | |
| 5/15/2018 | | 110 | | | | | |
| 5/16/2018 | 34 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 90 | 160 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 352 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | 10.9 | | |
| 2/27/2019 | | | | | | | 4.89 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 48.6 | 215 | | | | | |
| 9/23/2019 | | | | 394 | | | 16.9 |
| 9/24/2019 | | 224 | | | 15.3 | | |
| 9/25/2019 | 47.7 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 356 | | | |
| 3/18/2020 | | 228 | | | 12.2 | | |
| 3/23/2020 | | | 1050 | | | | |
| 3/24/2020 | | | | | 201 | | |
| 3/25/2020 | 38.5 | | | | | | 3.25 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 33.6 | | | | | | |
| 9/17/2020 | | | | 361 | 6.7 | 173 | |
| 9/21/2020 | | | | | | | 4.54 |
| 9/22/2020 | 21.5 | | | | | | |
| 9/23/2020 | | 248 | 1120 | | | | |
| 2/1/2021 | 21.3 | | | | | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 6.43 | | |
| 2/3/2021 | | | | 339 | | | |
| 2/8/2021 | | 232 | | | | | |
| 2/9/2021 | | | 645 | | | | 5.76 |
| 2/10/2021 | | | | | | 171 | |
| 7/27/2021 | | | | 339 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 6.21 | | |
| 8/4/2021 | 16.8 | 231 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 4.73 |
| 8/11/2021 | | | 137 | | | | |
| 8/12/2021 | | | | | | 125 | |
| 2/8/2022 | | 241 | 451 | | | | |
| 2/14/2022 | | | | 356 | | | |
| 2/15/2022 | | | | | 12.1 | | 7.16 |
| 2/16/2022 | | | | | | 130 | |
| 2/22/2022 | 17.1 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 19.4 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 322 | | | |
| 7/27/2022 | | | | | 6.24 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 81.800003 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 360 | | | | |
| 8/10/2022 | | 245 | | | | | 4.09 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 57.1 | | | | | | |
| 3/18/2020 | | | | 122 | | | |
| 3/24/2020 | | 16.7 | | | | 449 | |
| 3/25/2020 | | | | | | | 327 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 47.8 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 50.2 | | | 105 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 27 | 626 | | | 372 | 269 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 644 | | | | |
| 2/3/2021 | | | | | | 373 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 111 | 95.1 | | |
| 2/9/2021 | | 27 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 28.9 | | | | | | 285 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 103 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 94.1 | | | |
| 8/4/2021 | 83.7 | 32.3 | | | | 372 | 301 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 661 | | | | |
| 2/8/2022 | | | | | 105 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 112 | | | | | | |
| 2/15/2022 | | | 684 | 110 | | | |
| 2/16/2022 | | | | | | 396 | |
| 2/21/2022 | | | | | | | 347 |
| 2/22/2022 | | 27.9 | | | | | |
| 7/20/2022 | 11 | | | | | | |
| 7/26/2022 | | | | | 109 | | |
| 7/27/2022 | | | | 116 | | 363 | |
| 8/2/2022 | | | 732 | | | | |
| 8/3/2022 | | | | | | | 250 |
| 8/10/2022 | | 58.599998 | | | | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | 27 | 13 | |
| 2/28/2022 | | | | 33.3 | | | |
| 3/1/2022 | 21.6 | 39.4 | 38 | | | 5.88 | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | 39.400002 | | | | | |
| 7/20/2022 | | | 38.900002 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 4.28 |
| 8/3/2022 | 30.9 | | | 24.700001 | 21.200001 | | |
| 8/9/2022 | | | | | | 5.54 | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 268 | 26.2 | 53.9 | | | | | |
| 2/23/2022 | 331 | | | | | 370 | 273 | | |
| 2/28/2022 | | | | | 22.6 | | | 14.4 | |
| 3/1/2022 | | | | | | | | | 348 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 454 | | | |
| 7/26/2022 | 286 | | | | 32.200001 | | | 16.700001 | |
| 7/27/2022 | | 593 | | 387 | | | | | |
| 8/2/2022 | | | | | | | | | 294 |
| 8/3/2022 | | | 111 | | | | | | |
| 8/8/2022 | | | | | | | 273 | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 55.5 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 317 |
| 2/28/2022 | | | |
| 3/1/2022 | 104 | | |
| 7/19/2022 | 86.599998 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 48.200001 | |
| 8/2/2022 | | | 200 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: TDS (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | 640 | | 222 | 408 | | 245 |
| 8/2/2016 | | | 221 | | | | | | |
| 8/3/2016 | 546 | | | | | | | | |
| 9/19/2016 | | | | | | 220 | 441 | | |
| 9/20/2016 | 542 | | 221 | 434 | | | | | |
| 9/21/2016 | | | | | | | | | 267 |
| 10/24/2016 | | | | | | | 424 | | 275 |
| 10/25/2016 | 518 | | 226 | 394 | | 223 | | | |
| 12/13/2016 | 424 | | 211 | | | 211 | 466 | | 255 |
| 12/14/2016 | | | | 387 | | | | | |
| 2/6/2017 | | | | | | | 414 | | |
| 2/7/2017 | | | | | | | | | 272 |
| 2/8/2017 | 379 | | 212 | 303 | | 206 | | | |
| 3/27/2017 | | | | | | | 444 | | |
| 3/28/2017 | | | | 305 | | | | | 271 |
| 3/29/2017 | 334 | | 217 | | | 215 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | 446 | | |
| 4/26/2017 | 332 | | 202 | 329 | | 212 | | | 265 |
| 6/5/2017 | | | | | | | 493 | | |
| 6/6/2017 | | | | 331 | | 227 | | | 287 |
| 6/7/2017 | 308 | | 218 | | | | | | |
| 8/21/2017 | | | | | | | | | |
| 8/22/2017 | 286 | | 224 | 364 | | 230 | 500 | | 293 |
| 8/23/2017 | | | | | | | | | |
| 5/15/2018 | 235 | | 209 | 340 | | | 528 | | |
| 5/16/2018 | | | | | | 216 | | | 301 |
| 10/15/2018 | | | | 448 | | | 462 | | |
| 10/16/2018 | 211 | | | | | | | | 303 |
| 10/17/2018 | | | 208 | | | 191 | | | |
| 2/20/2019 | | | | | | | | 346 | |
| 2/21/2019 | | 237 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | 193 | | 185 | | | | | | |
| 4/17/2019 | | | | 354 | | 207 | 540 | | 296 |
| 9/23/2019 | | | | | | | 684 | | |
| 9/24/2019 | | | | 536 | | 208 | | 365 | 302 |
| 9/25/2019 | 253 | 183 | | | | | | | |
| 3/16/2020 | | | | | | | 516 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | 236 | | | 515 | 873 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | 206 | | | | 205 | | | 302 |
| 3/25/2020 | | | | | | | | 364 | |
| 5/12/2020 | | | | | | | 493 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | 1090 | | 658 | | |
| 9/22/2020 | | | | | | 218 | | | 300 |
| 9/23/2020 | 216 | 195 | | 600 | | | | 368 | |
| 2/1/2021 | 224 | 240 | | | | | | | |

Time Series

Constituent: TDS (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | 390 | 348 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | 398 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | 368 | | | | | |
| 10/24/2016 | 395 | | | | | | |
| 10/25/2016 | | 348 | | | | | |
| 12/13/2016 | 381 | | | | | | |
| 12/14/2016 | | 352 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | 376 | 352 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | 370 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | 391 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | 384 | 342 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | 404 | 367 | | | | | |
| 6/7/2017 | | | | | | | |
| 8/21/2017 | 416 | | | | | | |
| 8/22/2017 | | | | | | | |
| 8/23/2017 | | 508 | | | | | |
| 5/15/2018 | | 438 | | | | | |
| 5/16/2018 | 365 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | 430 | 520 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | 560 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | 249 | | |
| 2/27/2019 | | | | | | | 266 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | 341 | 582 | | | | | |
| 9/23/2019 | | | | 598 | | | 278 |
| 9/24/2019 | | 630 | | | 253 | | |
| 9/25/2019 | 358 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | 626 | | | |
| 3/18/2020 | | 661 | | | 250 | | |
| 3/23/2020 | | | 3410 | | | | |
| 3/24/2020 | | | | | | 948 | |
| 3/25/2020 | 337 | | | | | | 269 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 328 | | | | | | |
| 9/17/2020 | | | | 648 | 250 | 960 | |
| 9/21/2020 | | | | | | | 287 |
| 9/22/2020 | 318 | | | | | | |
| 9/23/2020 | | 642 | 3690 | | | | |
| 2/1/2021 | 333 | | | | | | |

Time Series

Constituent: TDS (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | 259 | | |
| 2/3/2021 | | | | 612 | | | |
| 2/8/2021 | | 684 | | | | | |
| 2/9/2021 | | | 2250 | | | | 280 |
| 2/10/2021 | | | | | | 887 | |
| 7/27/2021 | | | | 580 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | 191 | | |
| 8/4/2021 | 316 | 594 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | 271 |
| 8/11/2021 | | | 712 | | | | |
| 8/12/2021 | | | | | | 967 | |
| 2/8/2022 | | 570 | 1360 | | | | |
| 2/14/2022 | | | | 592 | | | |
| 2/15/2022 | | | | | 241 | | 273 |
| 2/16/2022 | | | | | | 945 | |
| 2/22/2022 | 295 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | 262 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | 626 | | | |
| 7/27/2022 | | | | | 252 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | 897 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | 1240 | | | | |
| 8/10/2022 | | 592 | | | | | 282 |

Time Series

Constituent: TDS (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | 362 | | | | | | |
| 3/18/2020 | | | | 309 | | | |
| 3/24/2020 | | 335 | | | | 850 | |
| 3/25/2020 | | | | | | | 930 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | 333 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | 348 | | | 318 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | 339 | 1310 | | | 800 | 910 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | 1320 | | | | |
| 2/3/2021 | | | | | | 768 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | 326 | 317 | | |
| 2/9/2021 | | 355 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | 292 | | | | | | 853 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | 283 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | 307 | | | |
| 8/4/2021 | 449 | 368 | | | | 740 | 855 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | 1240 | | | | |
| 2/8/2022 | | | | | 265 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | 514 | | | | | | |
| 2/15/2022 | | | 1230 | 307 | | | |
| 2/16/2022 | | | | | | 774 | |
| 2/21/2022 | | | | | | | 894 |
| 2/22/2022 | | 345 | | | | | |
| 7/20/2022 | 248 | | | | | | |
| 7/26/2022 | | | | | 265 | | |
| 7/27/2022 | | | | 305 | | 728 | |
| 8/2/2022 | | | 1220 | | | | |
| 8/3/2022 | | | | | | | 864 |
| 8/10/2022 | | 456 | | | | | |

Time Series

Constituent: TDS (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

GS-AP-MW-10R GS-AP-MW-11R GS-AP-MW-13R GS-AP-MW-14R GS-AP-MW-18R GS-AP-MW-18VR GS-AP-MW-1R

8/2/2016
8/3/2016
9/20/2016
9/21/2016
10/24/2016
10/25/2016
10/26/2016
12/12/2016
12/13/2016
2/6/2017
3/27/2017
3/28/2017
4/24/2017
6/6/2017
6/7/2017
8/21/2017
5/14/2018
5/15/2018
10/15/2018
10/16/2018
4/16/2019
4/23/2019
9/23/2019
9/24/2019
3/17/2020
3/18/2020
3/23/2020
3/24/2020
8/27/2020
9/8/2020
9/15/2020
9/16/2020
9/17/2020
9/21/2020
9/22/2020
2/2/2021
2/3/2021
2/17/2021
7/27/2021
8/2/2021
8/3/2021
8/9/2021
8/10/2021
2/8/2022
2/9/2022
2/14/2022
2/15/2022
2/16/2022
2/21/2022
2/22/2022
2/28/2022
3/1/2022

250

244

201

305

136

298

288

Time Series

Constituent: TDS (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | 251 | | | | | |
| 7/20/2022 | | | 210 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | 309 |
| 8/3/2022 | 313 | | | 245 | 167 | | |
| 8/9/2022 | | | | | | 259 | |

Time Series

Constituent: TDS (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | 1100 | 406 | 438 | | | | | |
| 2/23/2022 | 752 | | | | | 1050 | 674 | | |
| 2/28/2022 | | | | | 287 | | | 180 | |
| 3/1/2022 | | | | | | | | | 762 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | 1520 | | | |
| 7/26/2022 | 740 | | | | 331 | | | 190 | |
| 7/27/2022 | | 2290 | | 1480 | | | | | |
| 8/2/2022 | | | | | | | | | 788 |
| 8/3/2022 | | | 767 | | | | | | |
| 8/8/2022 | | | | | | | 696 | | |

Time Series

Constituent: TDS (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | 303 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | 614 |
| 2/28/2022 | | | |
| 3/1/2022 | 398 | | |
| 7/19/2022 | 297 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | 307 | |
| 8/2/2022 | | | 594 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-13 (bg) | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-17V ... | GS-AP-MW-19 |
|------------|-------------|--------------|------------------|-------------|--------------|--------------|-------------|------------------|-------------|
| 8/1/2016 | | | | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 |
| 8/2/2016 | | | <0.000203 | | | | | | |
| 8/3/2016 | <0.000203 | | | | | | | | |
| 9/19/2016 | | | | | | <0.000203 | <0.000203 | | |
| 9/20/2016 | <0.000203 | | <0.000203 | <0.000203 | | | | | |
| 9/21/2016 | | | | | | | | | <0.000203 |
| 10/24/2016 | | | | | | | <0.000203 | | <0.000203 |
| 10/25/2016 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | |
| 12/13/2016 | <0.000203 | | <0.000203 | | | <0.000203 | <0.000203 | | <0.000203 |
| 12/14/2016 | | | | <0.000203 | | | | | |
| 2/6/2017 | | | | | | | <0.000203 | | |
| 2/7/2017 | | | | | | | | | <0.000203 |
| 2/8/2017 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | |
| 3/27/2017 | | | | | | | <0.000203 | | |
| 3/28/2017 | | | | <0.000203 | | | | | <0.000203 |
| 3/29/2017 | <0.000203 | | <0.000203 | | | <0.000203 | | | |
| 3/30/2017 | | | | | | | | | |
| 4/24/2017 | | | | | | | <0.000203 | | |
| 4/26/2017 | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 | | | <0.000203 |
| 6/5/2017 | | | | | | | <0.000203 | | |
| 6/6/2017 | | | | <0.000203 | | <0.000203 | | | <0.000203 |
| 6/7/2017 | <0.000203 | | <0.000203 | | | | | | |
| 2/19/2018 | | | | | | | <0.000203 | | |
| 2/20/2018 | <0.000203 | | <0.000203 | <0.000203 | | | | | |
| 2/21/2018 | | | | | | <0.000203 | | | <0.000203 |
| 5/15/2018 | <0.000203 | | <0.000203 | <0.000203 | | | <0.000203 | | |
| 5/16/2018 | | | | | | <0.000203 | | | <0.000203 |
| 10/15/2018 | | | | <0.000203 | | | <0.000203 | | |
| 10/16/2018 | <0.000203 | | | | | | | | <0.000203 |
| 10/17/2018 | | | <0.000203 | | | <0.000203 | | | |
| 2/20/2019 | | | | | | | | <0.000203 | |
| 2/21/2019 | | <0.000203 | | | | | | | |
| 2/26/2019 | | | | | | | | | |
| 2/27/2019 | | | | | | | | | |
| 4/16/2019 | <0.000203 | | <0.000203 | | | | | | |
| 4/17/2019 | | | | <0.000203 | | <0.000203 | <0.000203 | | <0.000203 |
| 9/23/2019 | | | | | | | <0.000203 | | |
| 9/24/2019 | | | | <0.000203 | | <0.000203 | | <0.000203 | <0.000203 |
| 9/25/2019 | <0.000203 | <0.000203 | | | | | | | |
| 3/16/2020 | | | | | | | <0.000203 | | |
| 3/17/2020 | | | | | | | | | |
| 3/18/2020 | <0.000203 | | | <0.000203 | <0.000203 | | | | |
| 3/23/2020 | | | | | | | | | |
| 3/24/2020 | | <0.000203 | | | | <0.000203 | | | <0.000203 |
| 3/25/2020 | | | | | | | | <0.000203 | |
| 5/12/2020 | | | | | | | <0.000203 | | |
| 5/13/2020 | | | | | | | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | | | <0.000203 | | <0.000203 | | |
| 9/22/2020 | | | | | | <0.000203 | | | <0.000203 |
| 9/23/2020 | <0.000203 | <0.000203 | | <0.000203 | | | | <0.000203 | |
| 2/1/2021 | <0.000203 | <0.000203 | | | | | | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 8/1/2016 | | | | | | | |
| 8/2/2016 | <0.000203 | <0.000203 | | | | | |
| 8/3/2016 | | | | | | | |
| 9/19/2016 | <0.000203 | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | <0.000203 | | | | | |
| 10/24/2016 | <0.000203 | | | | | | |
| 10/25/2016 | | <0.000203 | | | | | |
| 12/13/2016 | <0.000203 | | | | | | |
| 12/14/2016 | | <0.000203 | | | | | |
| 2/6/2017 | | | | | | | |
| 2/7/2017 | | | | | | | |
| 2/8/2017 | <0.000203 | <0.000203 | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | <0.000203 | | | | | |
| 3/29/2017 | | | | | | | |
| 3/30/2017 | <0.000203 | | | | | | |
| 4/24/2017 | | | | | | | |
| 4/26/2017 | <0.000203 | <0.000203 | | | | | |
| 6/5/2017 | | | | | | | |
| 6/6/2017 | <0.000203 | <0.000203 | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 2/20/2018 | | <0.000203 | | | | | |
| 2/21/2018 | <0.000203 | | | | | | |
| 5/15/2018 | | <0.000203 | | | | | |
| 5/16/2018 | <0.000203 | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | <0.000203 | <0.000203 | | | | | |
| 10/17/2018 | | | | | | | |
| 2/20/2019 | | | | <0.000203 | | | |
| 2/21/2019 | | | | | | | |
| 2/26/2019 | | | | | <0.000203 | | |
| 2/27/2019 | | | | | | | <0.000203 |
| 4/16/2019 | | | | | | | |
| 4/17/2019 | <0.000203 | <0.000203 | | | | | |
| 9/23/2019 | | | | <0.000203 | | | <0.000203 |
| 9/24/2019 | | <0.000203 | | | <0.000203 | | |
| 9/25/2019 | <0.000203 | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | | | | <0.000203 | | | |
| 3/18/2020 | | <0.000203 | | | <0.000203 | | |
| 3/23/2020 | | | <0.000203 | | | | |
| 3/24/2020 | | | | | | <0.000203 | |
| 3/25/2020 | <0.000203 | | | | | | <0.000203 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.000203 | | | | | | |
| 9/17/2020 | | | | <0.000203 | <0.000203 | <0.000203 | |
| 9/21/2020 | | | | | | | <0.000203 |
| 9/22/2020 | <0.000203 | | | | | | |
| 9/23/2020 | | <0.000203 | <0.000203 | | | | |
| 2/1/2021 | <0.000203 | | | | | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-2 | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-23H | GS-AP-MW-24H | GS-AP-MW-25HA | GS-AP-MW-26H |
|-----------|------------|-------------|--------------|--------------|--------------|---------------|--------------|
| 2/2/2021 | | | | | <0.000203 | | |
| 2/3/2021 | | | | <0.000203 | | | |
| 2/8/2021 | | <0.000203 | | | | | |
| 2/9/2021 | | | <0.000203 | | | | <0.000203 |
| 2/10/2021 | | | | | | <0.000203 | |
| 7/27/2021 | | | | <0.000203 | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | <0.000203 | | |
| 8/4/2021 | <0.000203 | <0.000203 | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | <0.000203 |
| 8/11/2021 | | | <0.000203 | | | | |
| 8/12/2021 | | | | | | <0.000203 | |
| 2/8/2022 | | <0.000203 | <0.000203 | | | | |
| 2/14/2022 | | | | <0.000203 | | | |
| 2/15/2022 | | | | | <0.000203 | | <0.000203 |
| 2/16/2022 | | | | | | <0.000203 | |
| 2/22/2022 | <0.000203 | | | | | | |
| 2/23/2022 | | | | | | | |
| 2/28/2022 | | | | | | | |
| 7/19/2022 | <0.000203 | | | | | | |
| 7/20/2022 | | | | | | | |
| 7/26/2022 | | | | <0.000203 | | | |
| 7/27/2022 | | | | | <0.000203 | | |
| 8/2/2022 | | | | | | | |
| 8/3/2022 | | | | | | <0.000203 | |
| 8/8/2022 | | | | | | | |
| 8/9/2022 | | | <0.000203 | | | | |
| 8/10/2022 | | <0.000203 | | | | | <0.000203 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 3:14 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-36H | GS-AP-MW-38H | GS-AP-MW-40H | GS-AP-MW-41HD | GS-AP-MW-41HS | GS-AP-MW-42H | GS-AP-MW-43HO |
|-----------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|
| 2/27/2019 | | | | | | | |
| 3/13/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 9/25/2019 | | | | | | | |
| 3/16/2020 | | | | | | | |
| 3/17/2020 | <0.000203 | | | | | | |
| 3/18/2020 | | | | <0.000203 | | | |
| 3/24/2020 | | <0.000203 | | | | <0.000203 | |
| 3/25/2020 | | | | | | | <0.000203 |
| 5/12/2020 | | | | | | | |
| 5/13/2020 | <0.000203 | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | <0.000203 | | | <0.000203 | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | <0.000203 | <0.000203 | | | <0.000203 | <0.000203 |
| 2/1/2021 | | | | | | | |
| 2/2/2021 | | | <0.000203 | | | | |
| 2/3/2021 | | | | | | <0.000203 | |
| 2/4/2021 | | | | | | | |
| 2/8/2021 | | | | <0.000203 | <0.000203 | | |
| 2/9/2021 | | <0.000203 | | | | | |
| 2/10/2021 | | | | | | | |
| 2/17/2021 | <0.000203 | | | | | | <0.000203 |
| 7/27/2021 | | | | | | | |
| 7/28/2021 | | | | | <0.000203 | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | <0.000203 | | | |
| 8/4/2021 | <0.000203 | <0.000203 | | | | <0.000203 | <0.000203 |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | <0.000203 | | | | |
| 2/8/2022 | | | | | <0.000203 | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | <0.000203 | | | | | | |
| 2/15/2022 | | | <0.000203 | <0.000203 | | | |
| 2/16/2022 | | | | | | <0.000203 | |
| 2/21/2022 | | | | | | | <0.000203 |
| 2/22/2022 | | <0.000203 | | | | | |
| 7/20/2022 | <0.000203 | | | | | | |
| 7/26/2022 | | | | | <0.000203 | | |
| 7/27/2022 | | | | <0.000203 | | <0.000203 | |
| 8/2/2022 | | | <0.000203 | | | | |
| 8/3/2022 | | | | | | | <0.000203 |
| 8/10/2022 | | <0.000203 | | | | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 8/2/2016 | | | | | | | |
| 8/3/2016 | | | | | | | |
| 9/20/2016 | | | | | | | |
| 9/21/2016 | | | | | | | |
| 10/24/2016 | | | | | | | |
| 10/25/2016 | | | | | | | |
| 10/26/2016 | | | | | | | |
| 12/12/2016 | | | | | | | |
| 12/13/2016 | | | | | | | |
| 2/6/2017 | | | | | | | |
| 3/27/2017 | | | | | | | |
| 3/28/2017 | | | | | | | |
| 4/24/2017 | | | | | | | |
| 6/6/2017 | | | | | | | |
| 6/7/2017 | | | | | | | |
| 2/19/2018 | | | | | | | |
| 5/14/2018 | | | | | | | |
| 5/15/2018 | | | | | | | |
| 10/15/2018 | | | | | | | |
| 10/16/2018 | | | | | | | |
| 4/16/2019 | | | | | | | |
| 4/23/2019 | | | | | | | |
| 9/23/2019 | | | | | | | |
| 9/24/2019 | | | | | | | |
| 3/17/2020 | | | | | | | |
| 3/18/2020 | | | | | | | |
| 3/23/2020 | | | | | | | |
| 3/24/2020 | | | | | | | |
| 8/27/2020 | | | | | | | |
| 9/8/2020 | | | | | | | |
| 9/15/2020 | | | | | | | |
| 9/16/2020 | | | | | | | |
| 9/17/2020 | | | | | | | |
| 9/21/2020 | | | | | | | |
| 9/22/2020 | | | | | | | |
| 2/2/2021 | | | | | | | |
| 2/3/2021 | | | | | | | |
| 2/17/2021 | | | | | | | |
| 7/27/2021 | | | | | | | |
| 8/2/2021 | | | | | | | |
| 8/3/2021 | | | | | | | |
| 8/9/2021 | | | | | | | |
| 8/10/2021 | | | | | | | |
| 2/8/2022 | | | | | | | |
| 2/9/2022 | | | | | | | |
| 2/14/2022 | | | | | | | |
| 2/15/2022 | | | | | | | |
| 2/16/2022 | | | | | | | |
| 2/21/2022 | | | | | | | |
| 2/22/2022 | | | | | <0.000203 | <0.000203 | |
| 2/28/2022 | | | | <0.000203 | | | |
| 3/1/2022 | <0.000203 | <0.000203 | <0.000203 | | | | <0.000203 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-10R | GS-AP-MW-11R | GS-AP-MW-13R | GS-AP-MW-14R | GS-AP-MW-18R | GS-AP-MW-18VR | GS-AP-MW-1R |
|-----------|--------------|--------------|--------------|--------------|--------------|---------------|-------------|
| 7/19/2022 | | <0.000203 | | | | | |
| 7/20/2022 | | | <0.000203 | | | | |
| 7/25/2022 | | | | | | | |
| 7/26/2022 | | | | | | | |
| 8/2/2022 | | | | | | | <0.000203 |
| 8/3/2022 | <0.000203 | | | <0.000203 | <0.000203 | | |
| 8/9/2022 | | | | | | 7.7E-05 (J) | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-23V | GS-AP-MW-27HR | GS-AP-MW-31V | GS-AP-MW-36V | GS-AP-MW-37HR | GS-AP-MW-3V | GS-AP-MW-45V | GS-AP-MW-47 | GS-AP-MW-5R |
|-----------|--------------|---------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| 2/21/2022 | | | | | | | | | |
| 2/22/2022 | | <0.000203 | <0.000203 | <0.000203 | | | | | |
| 2/23/2022 | <0.000203 | | | | | <0.000203 | <0.000203 | | |
| 2/28/2022 | | | | | <0.000203 | | | <0.000203 | |
| 3/1/2022 | | | | | | | | | <0.000203 |
| 7/19/2022 | | | | | | | | | |
| 7/20/2022 | | | | | | <0.000203 | | | |
| 7/26/2022 | <0.000203 | | | | <0.000203 | | | <0.000203 | |
| 7/27/2022 | | <0.000203 | | <0.000203 | | | | | |
| 8/2/2022 | | | | | | | | | <0.000203 |
| 8/3/2022 | | | <0.000203 | | | | | | |
| 8/8/2022 | | | | | | | <0.000203 | | |

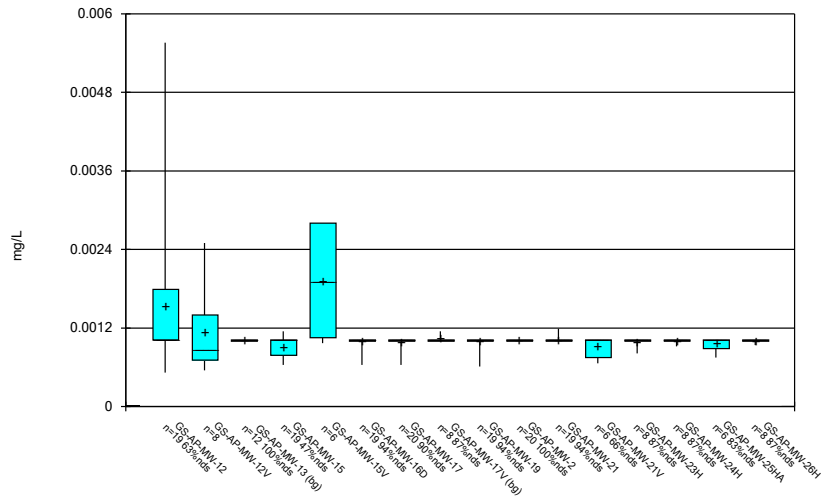
Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 3:14 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-9R | GS-AP-PZ-18R | GS-AP-MW-46 |
|-----------|-------------|--------------|-------------|
| 2/21/2022 | | <0.000203 | |
| 2/22/2022 | | | |
| 2/23/2022 | | | <0.000203 |
| 2/28/2022 | | | |
| 3/1/2022 | <0.000203 | | |
| 7/19/2022 | <0.000203 | | |
| 7/20/2022 | | | |
| 7/26/2022 | | | |
| 7/27/2022 | | <0.000203 | |
| 8/2/2022 | | | <0.000203 |
| 8/3/2022 | | | |
| 8/8/2022 | | | |

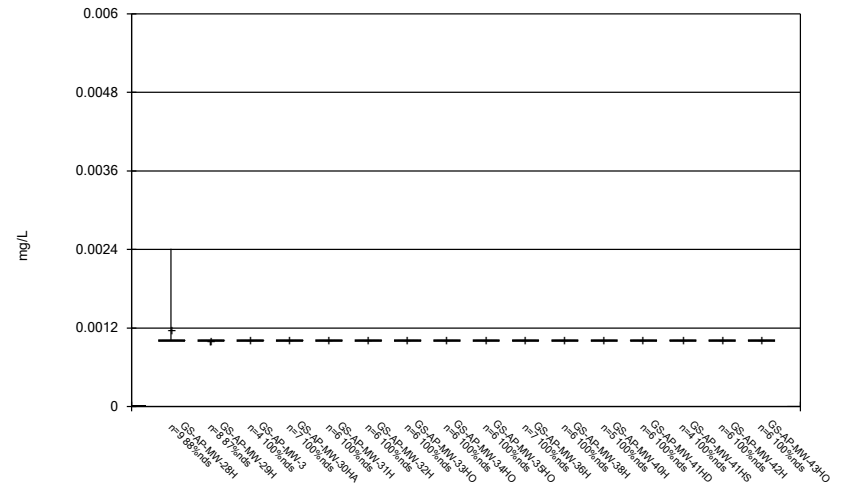
FIGURE B.

Box & Whiskers Plot



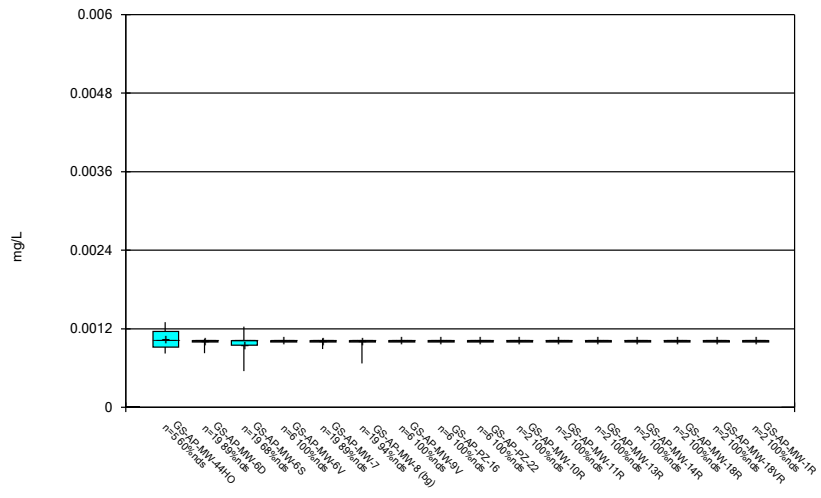
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



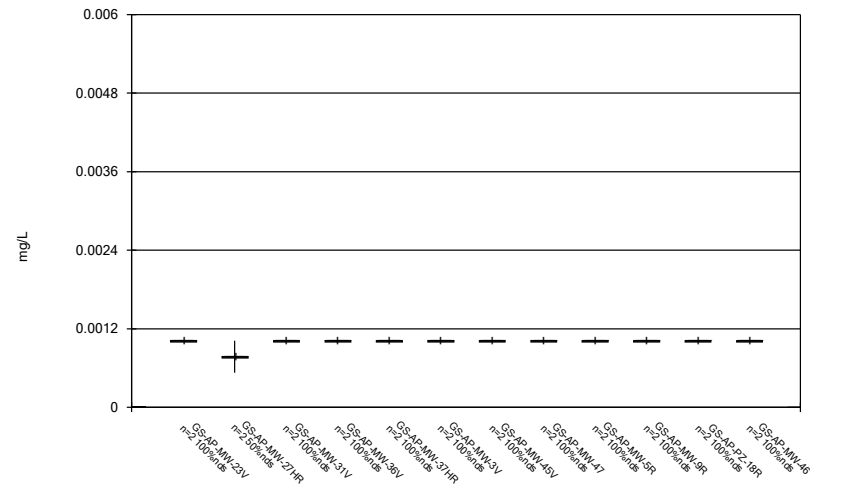
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



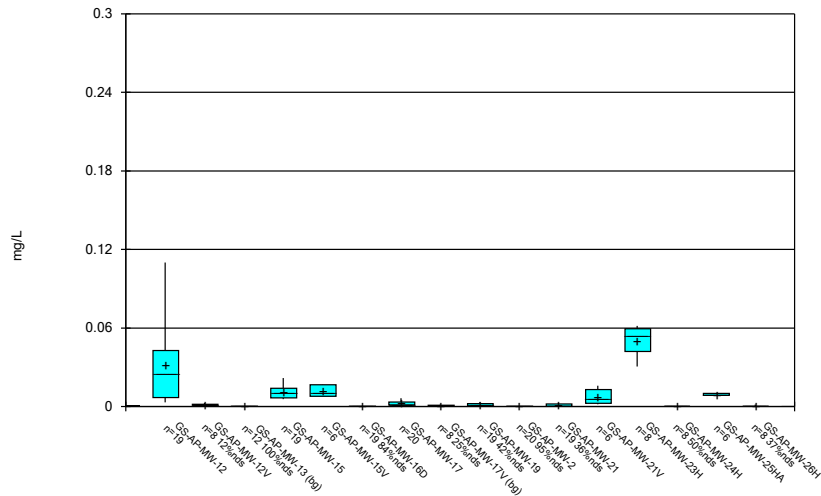
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



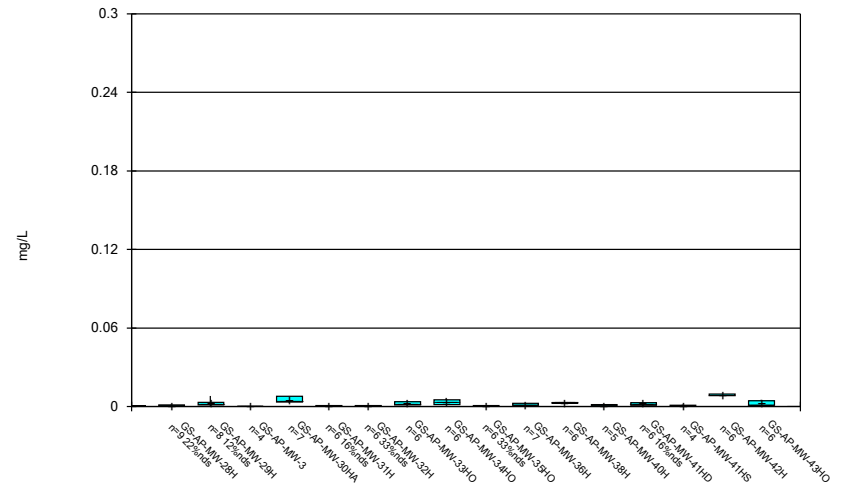
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



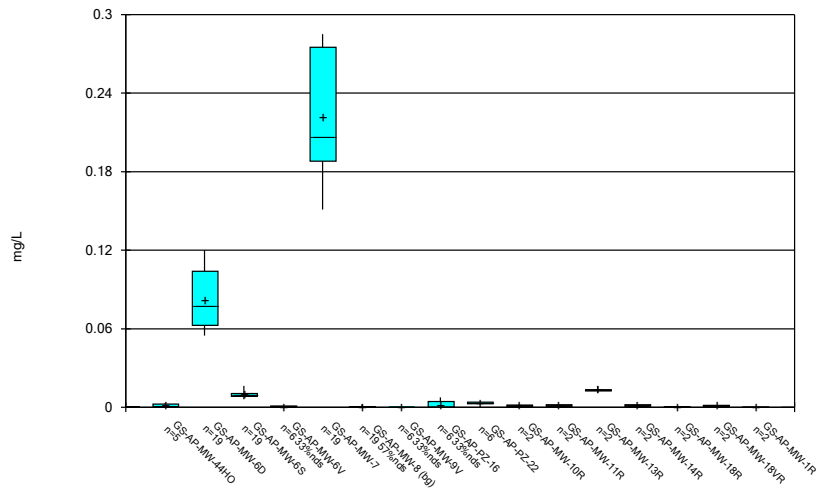
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



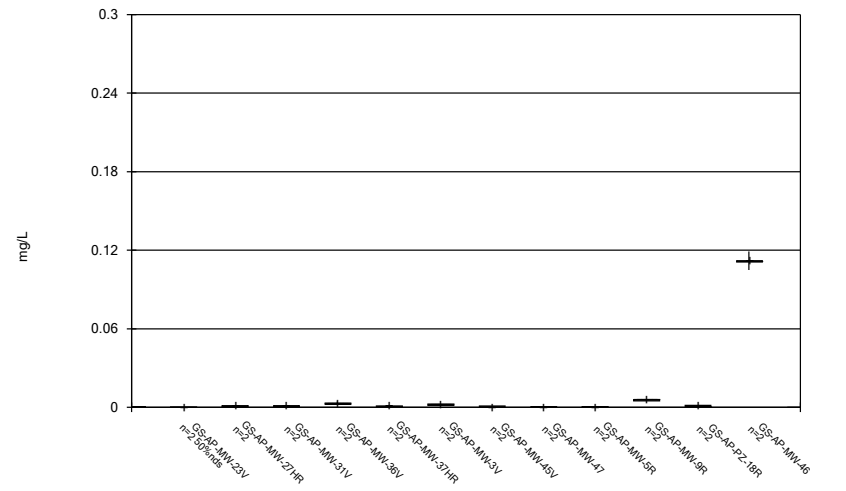
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



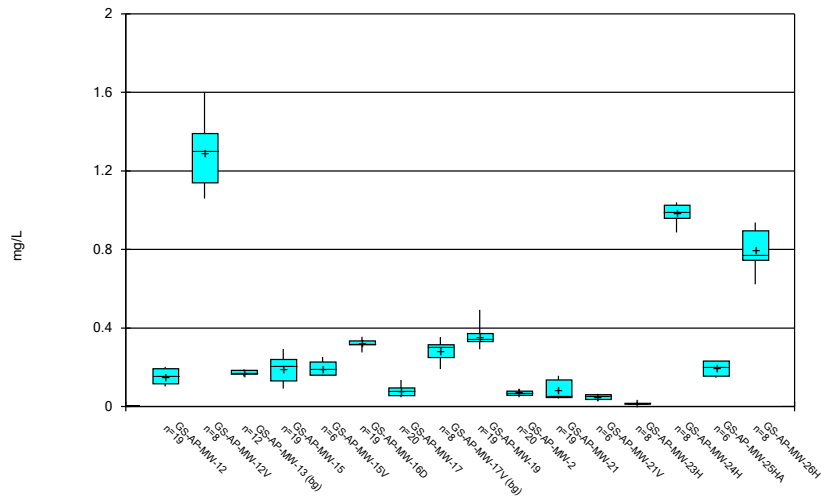
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



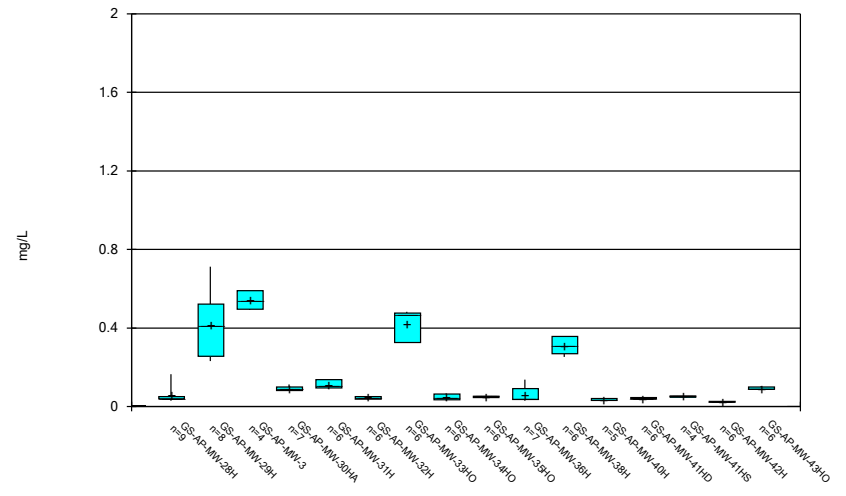
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



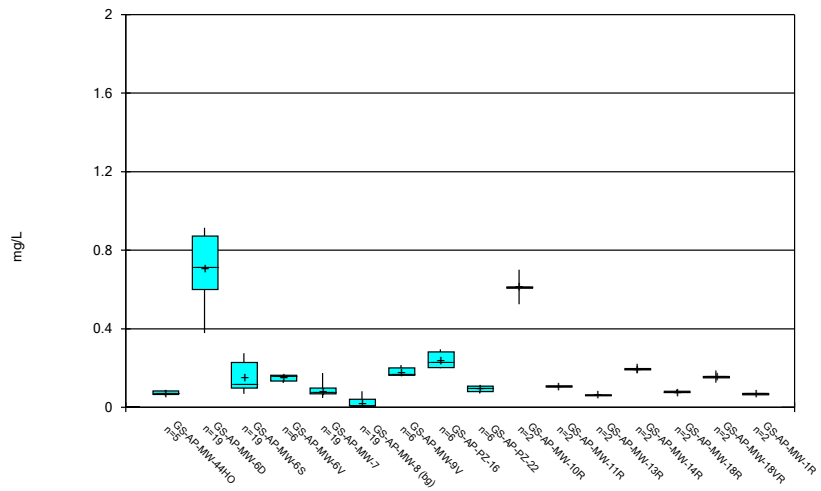
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



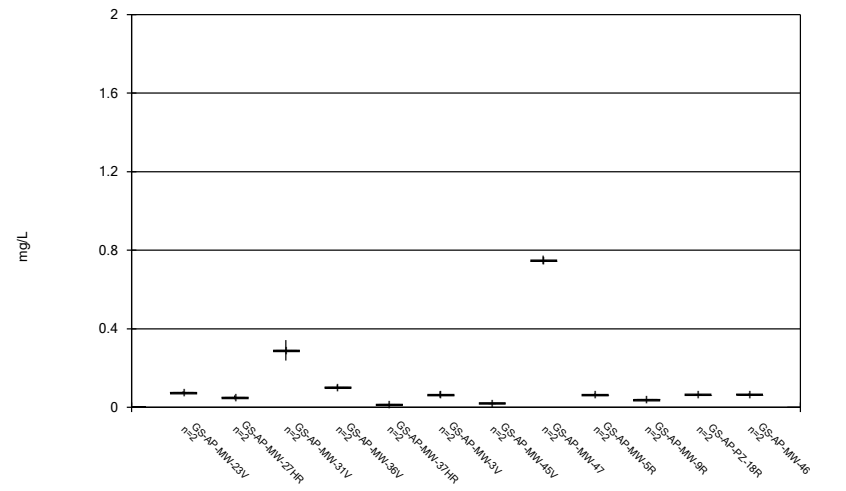
Constituent: Barium Analysis Run 10/6/2022 3:15 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



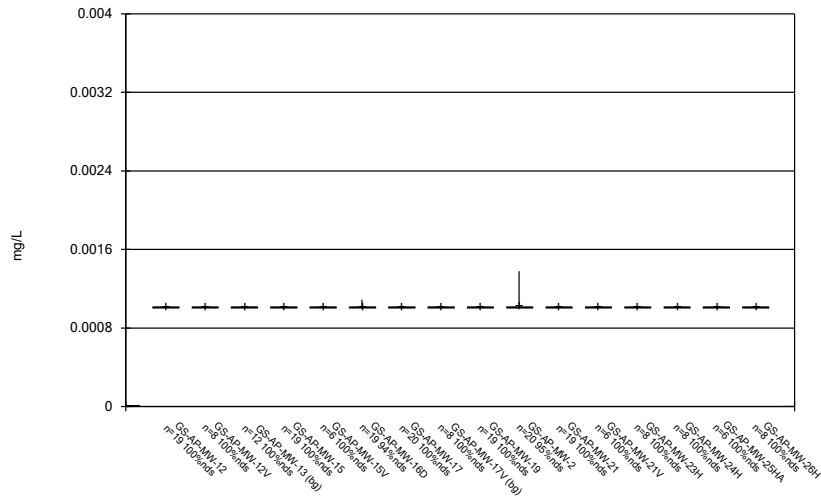
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



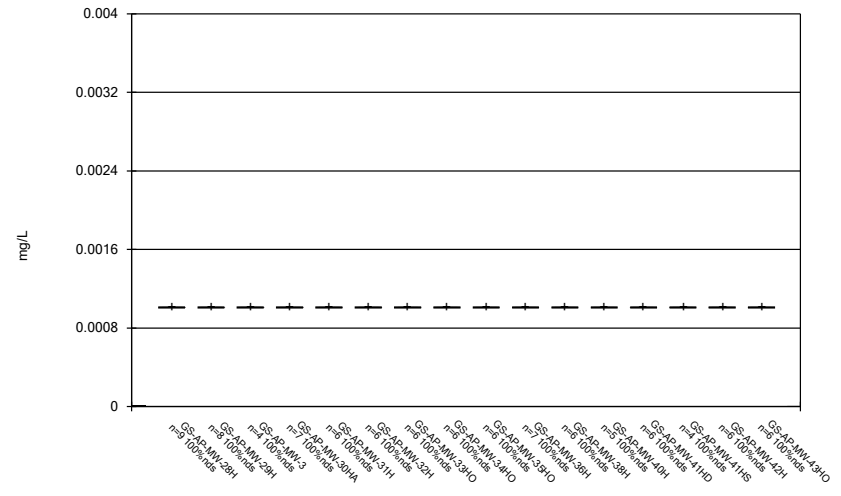
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Box & Whiskers Plot



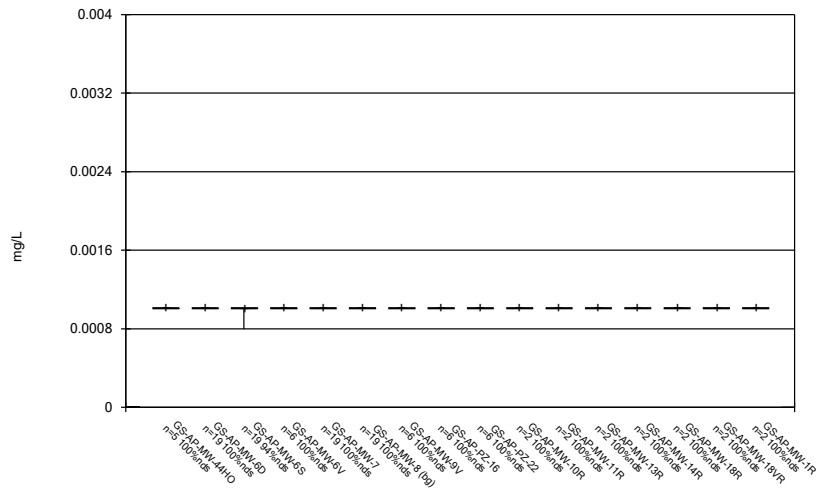
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



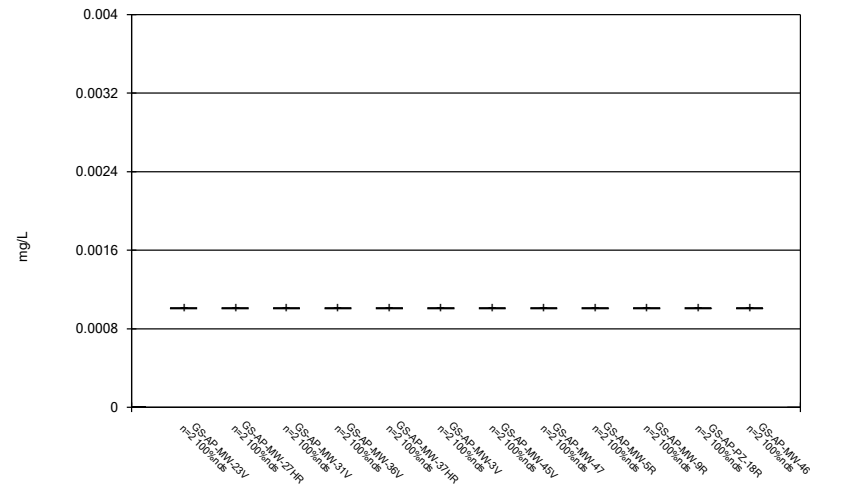
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



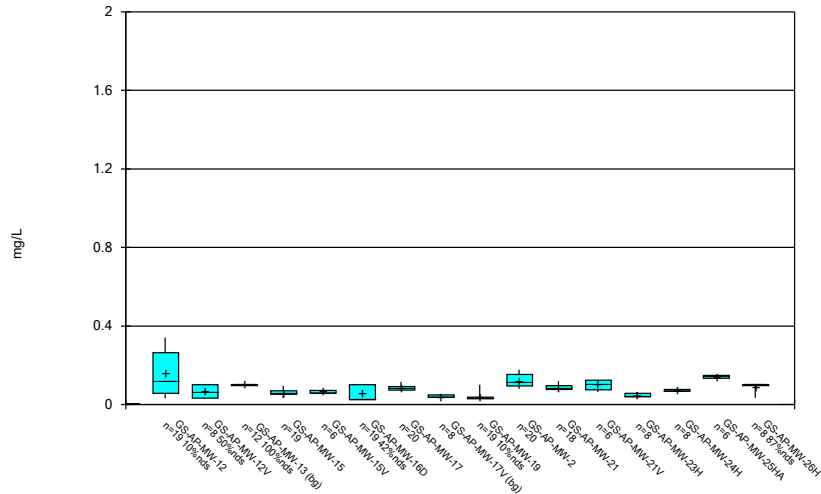
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



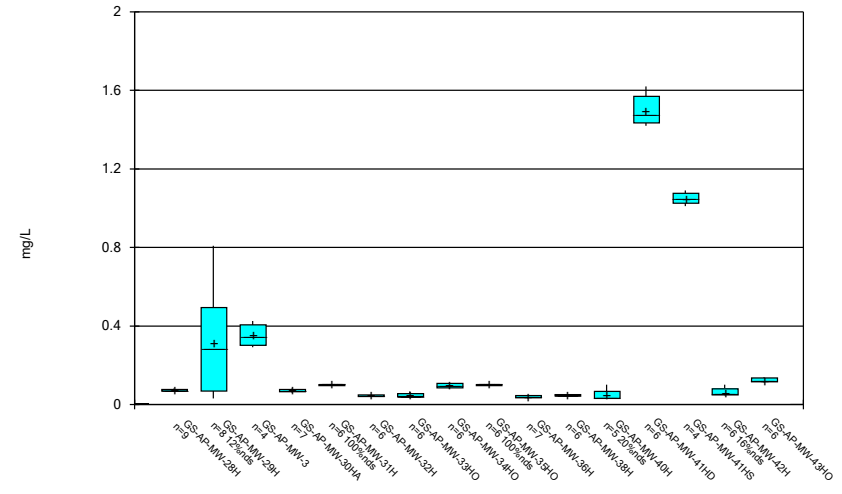
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



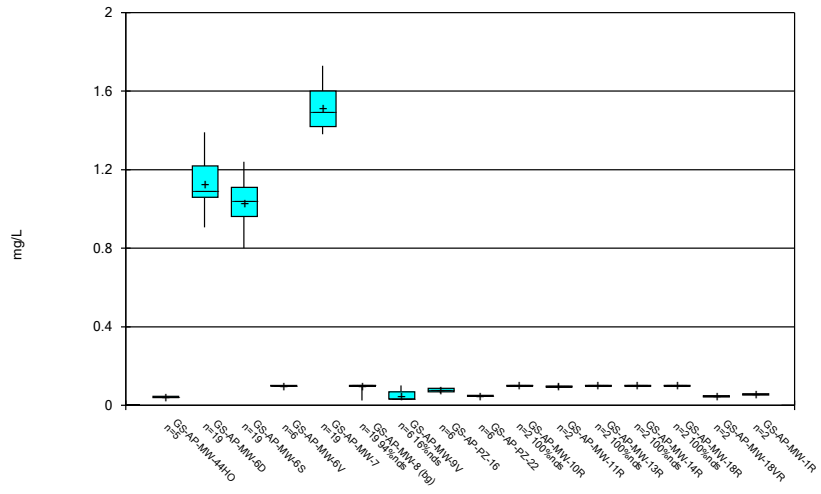
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Box & Whiskers Plot



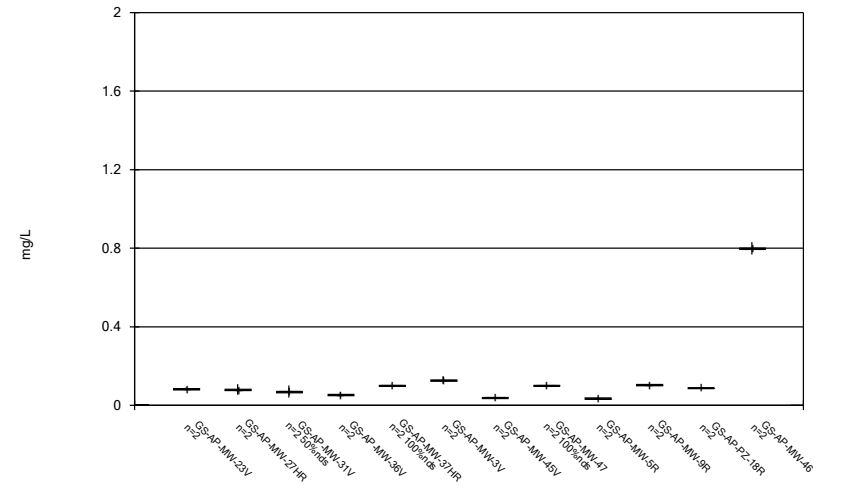
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



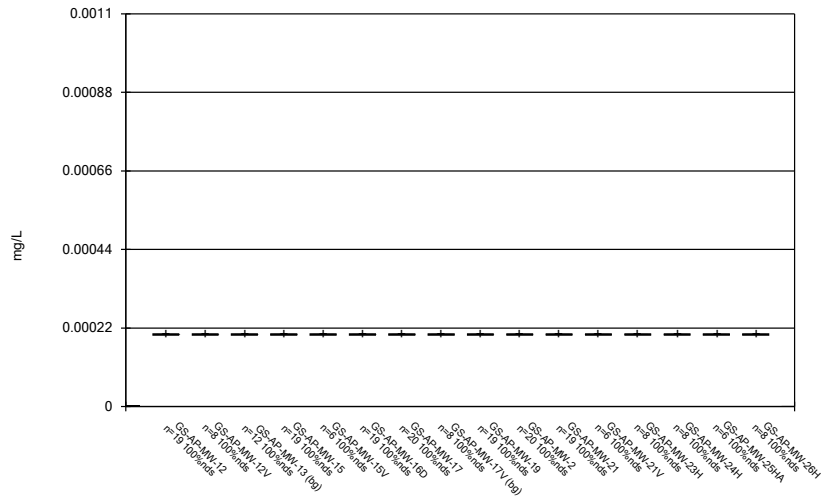
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



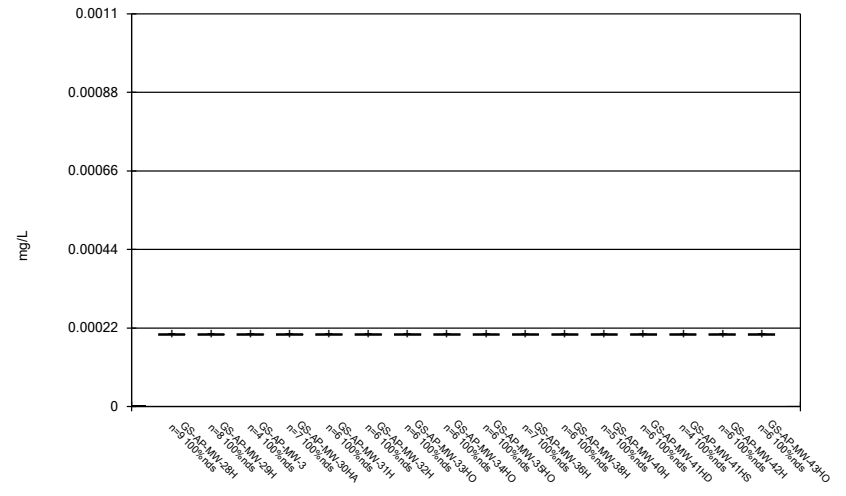
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Box & Whiskers Plot



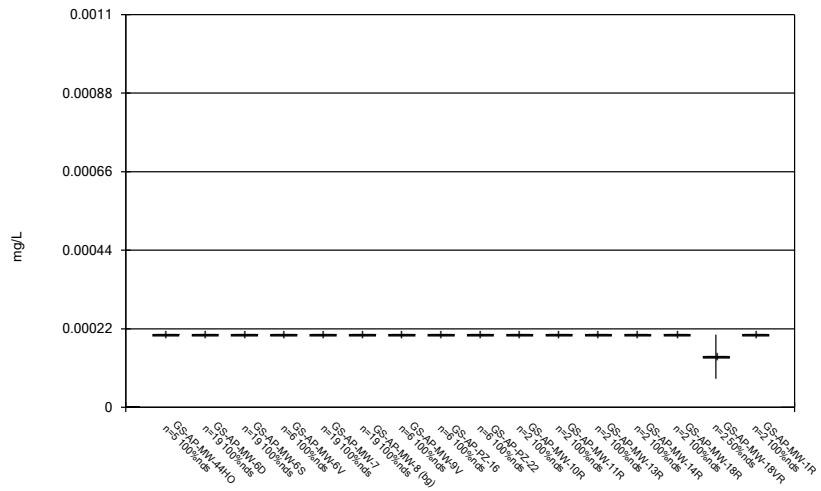
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



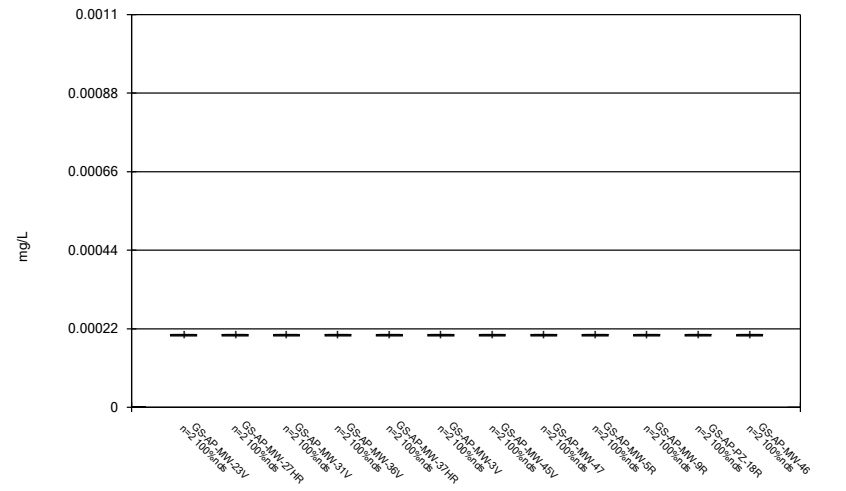
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



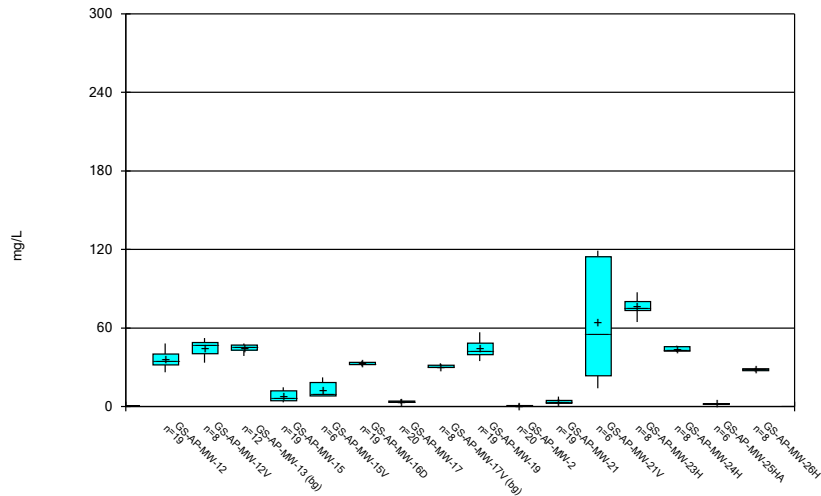
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



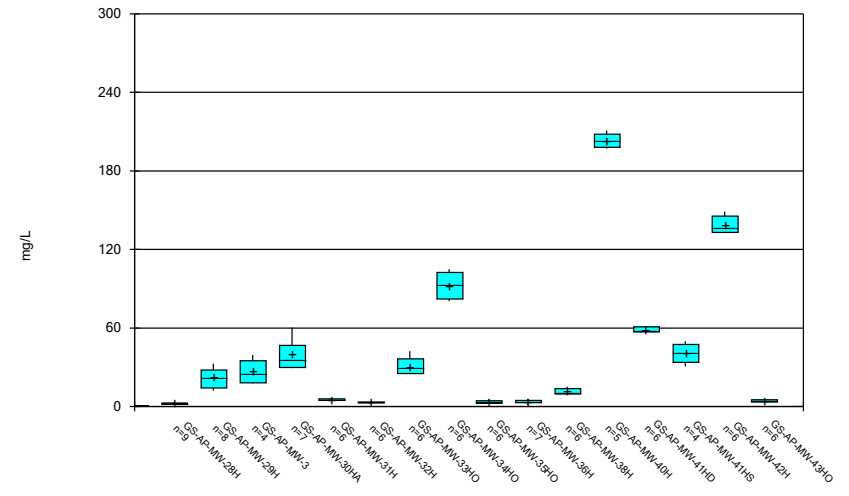
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



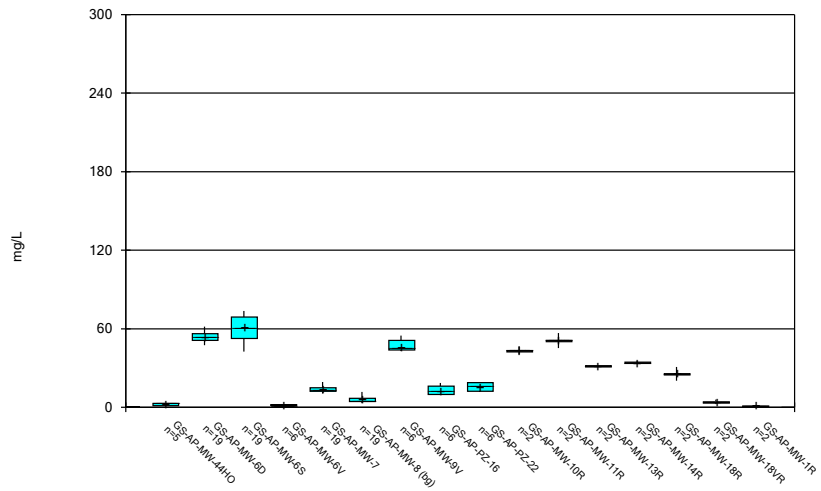
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



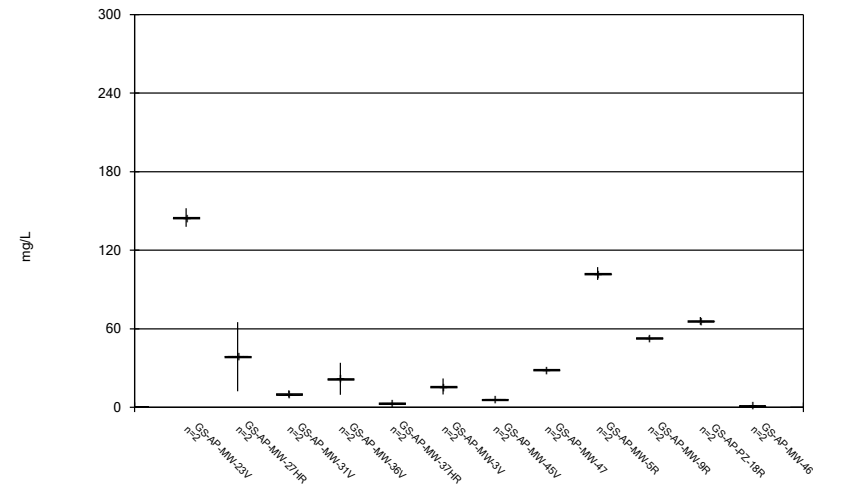
Constituent: Calcium Analysis Run 10/6/2022 3:15 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



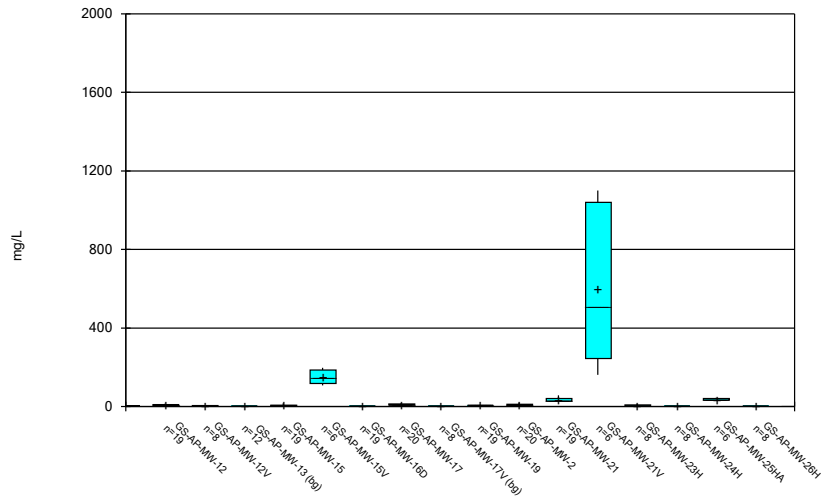
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



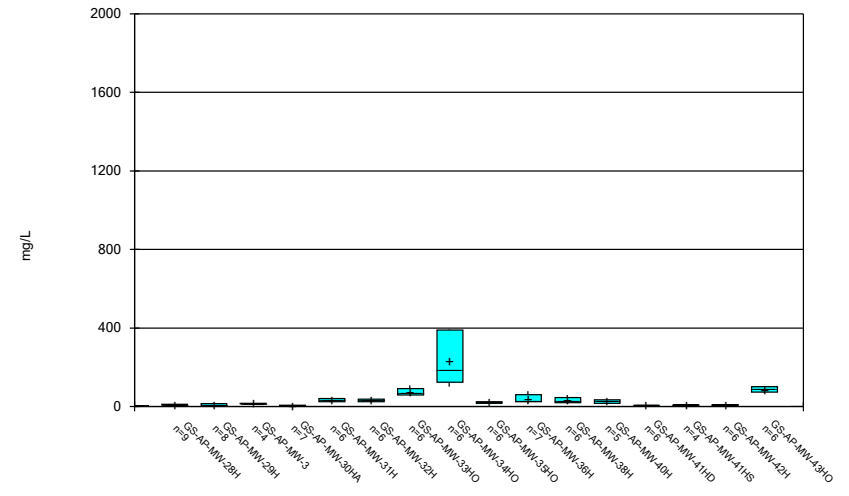
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



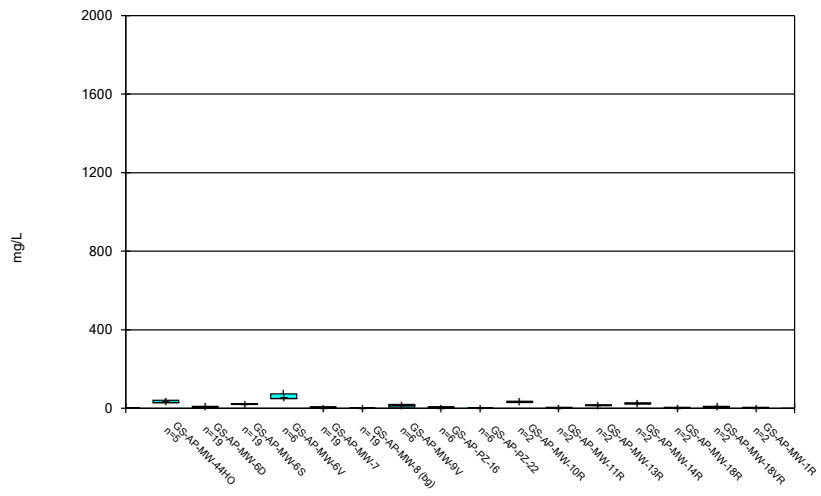
Constituent: Chloride Analysis Run 10/6/2022 3:15 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



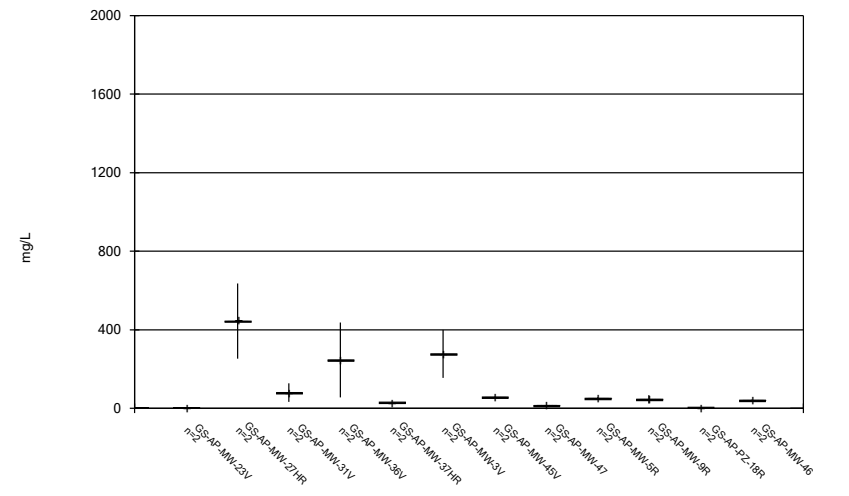
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



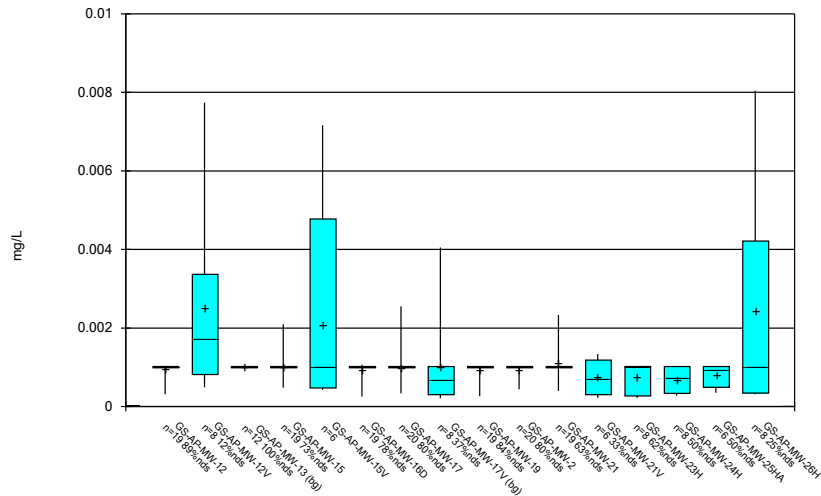
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Box & Whiskers Plot



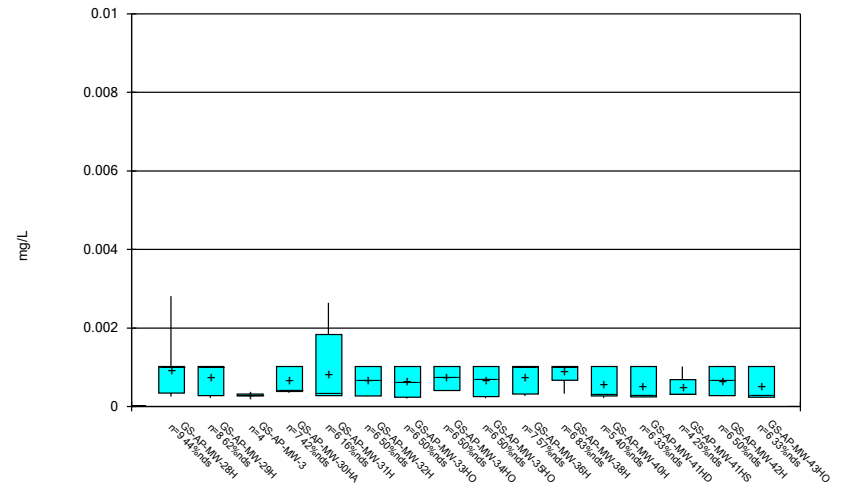
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Box & Whiskers Plot



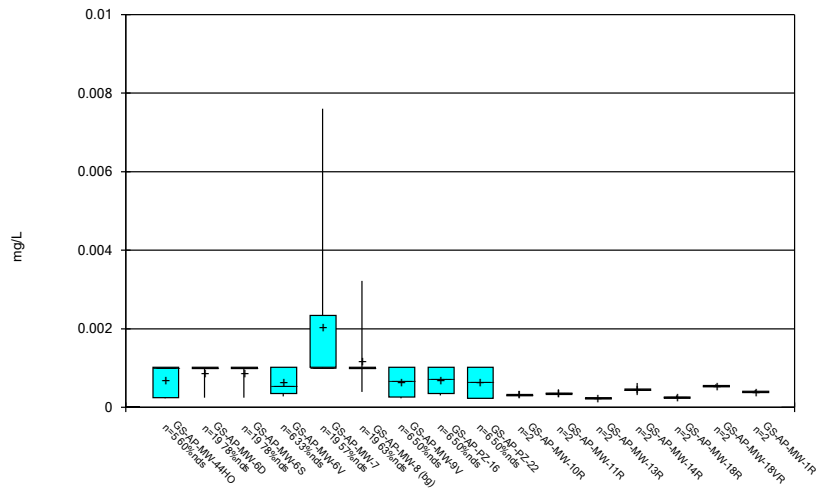
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



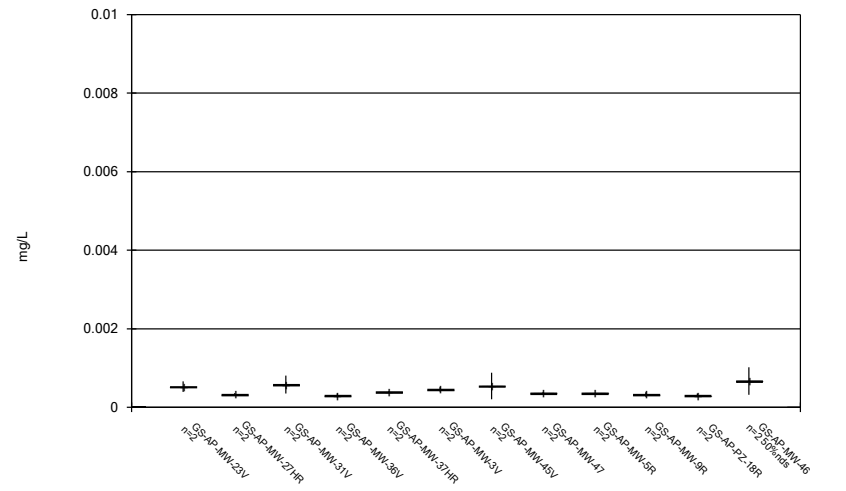
Constituent: Chromium Analysis Run 10/6/2022 3:15 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



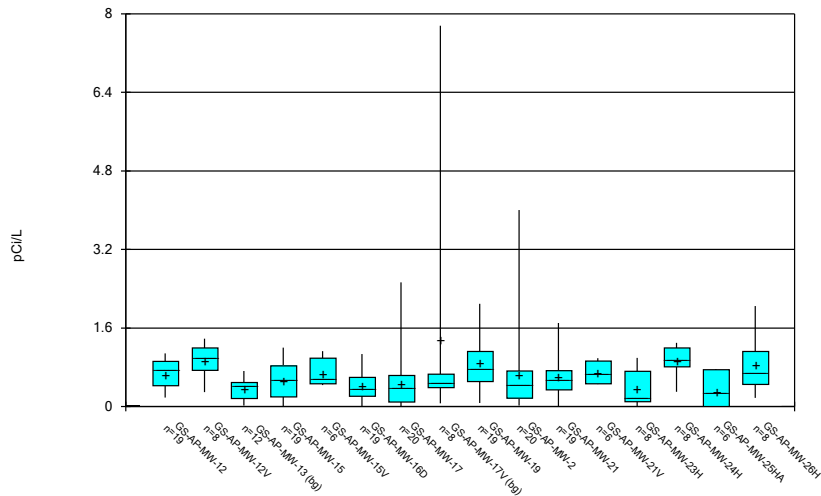
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



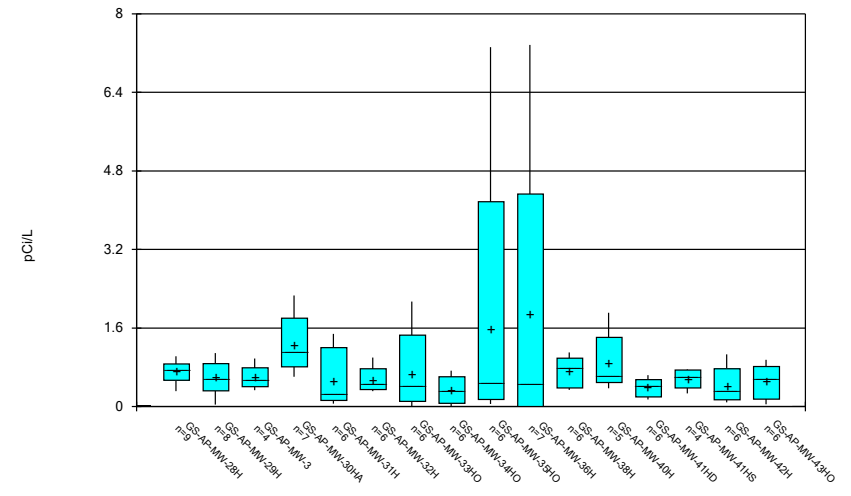
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



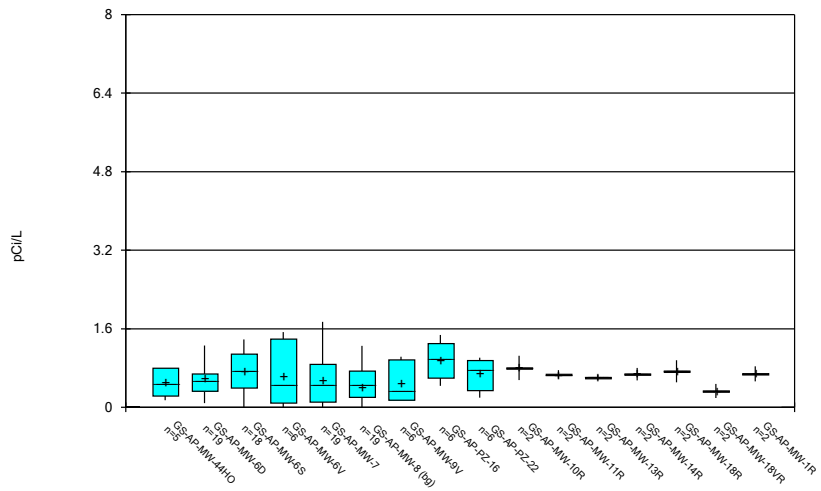
Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 3:15 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



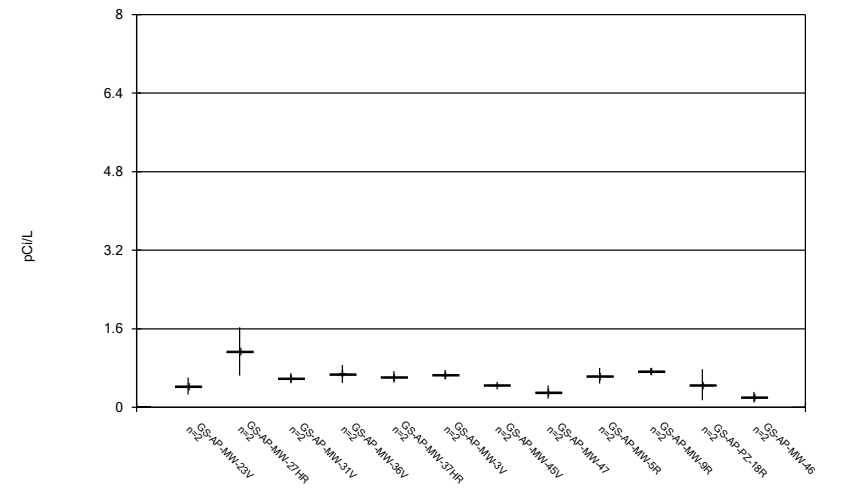
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



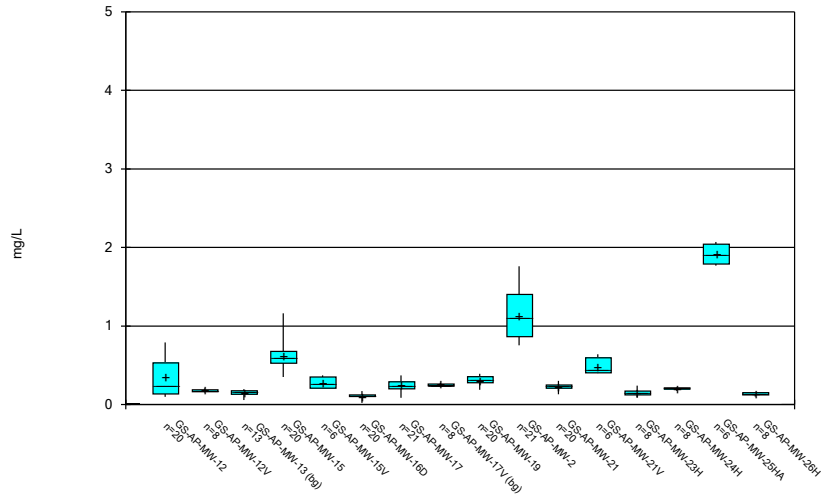
Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 3:15 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



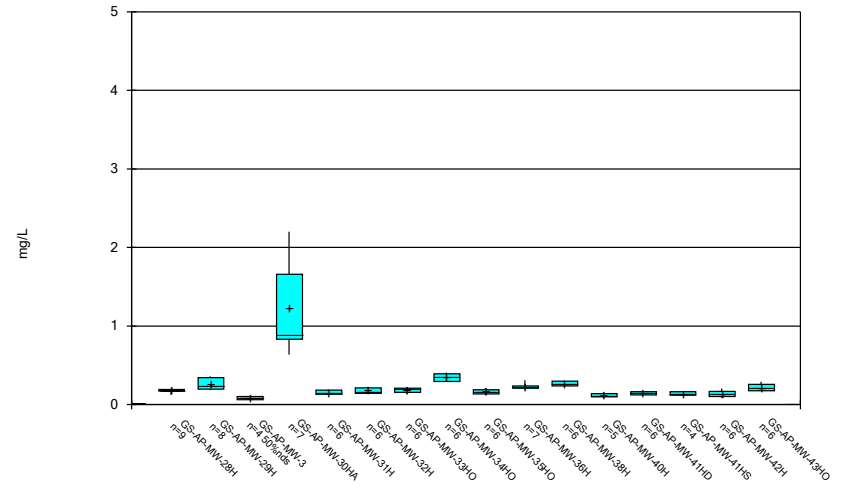
Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 3:15 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



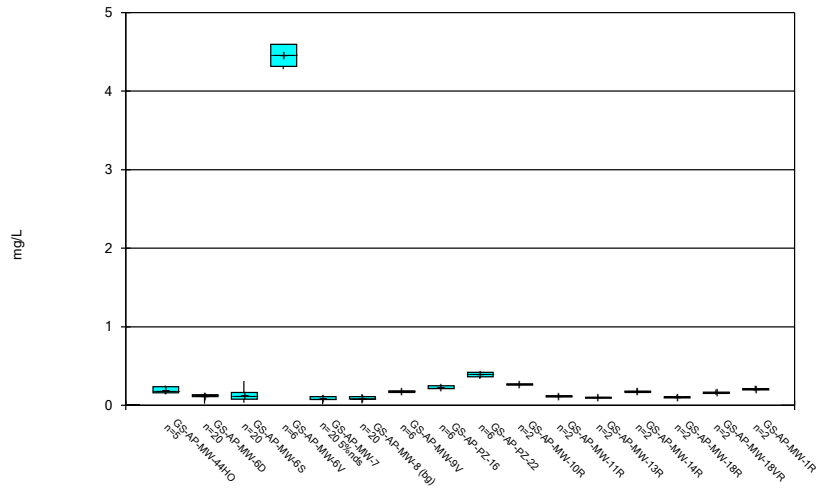
Constituent: Fluoride Analysis Run 10/6/2022 3:15 PM
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



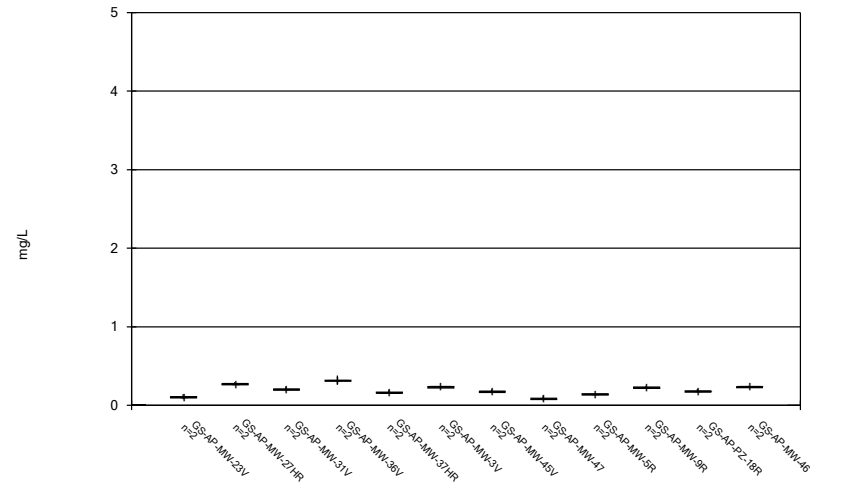
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



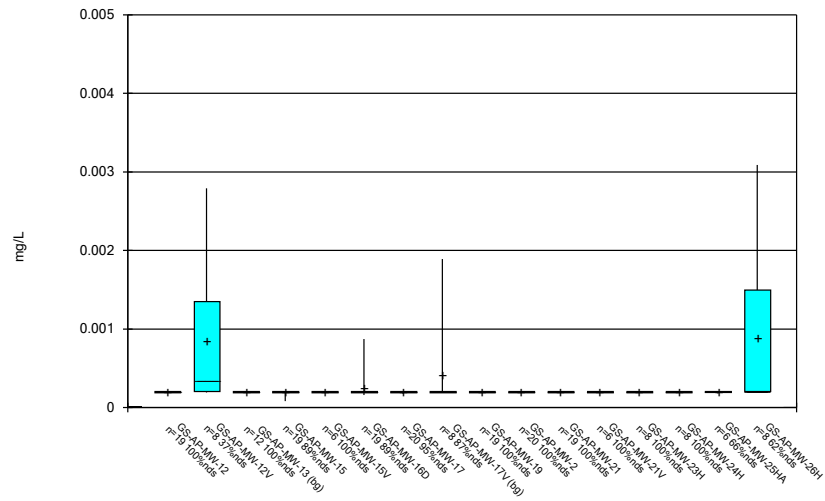
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



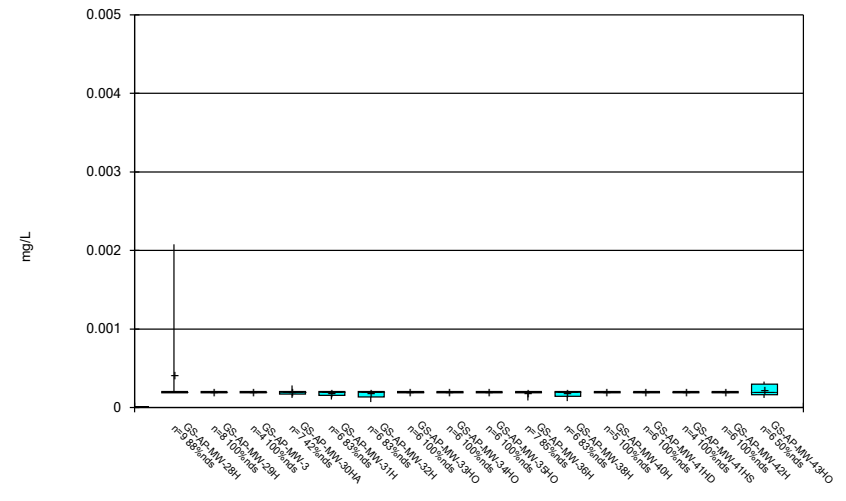
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



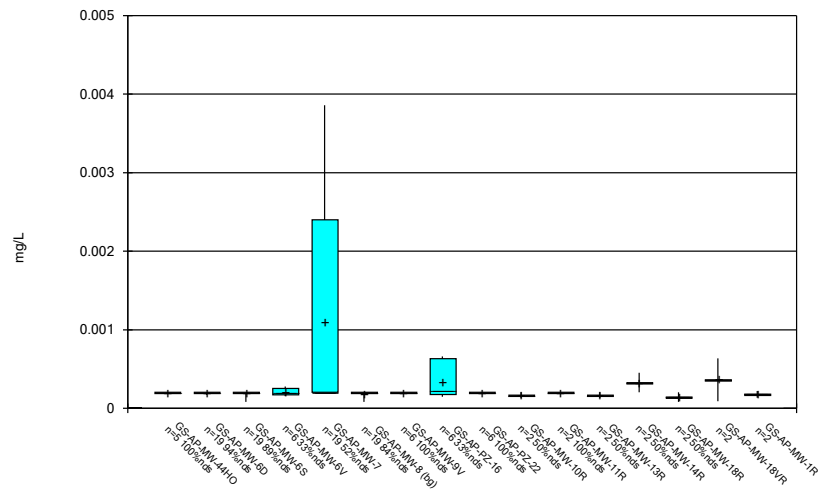
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



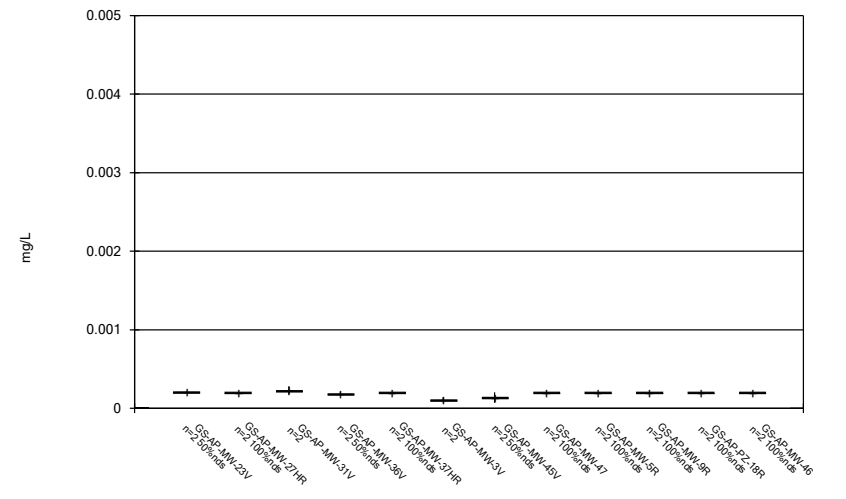
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



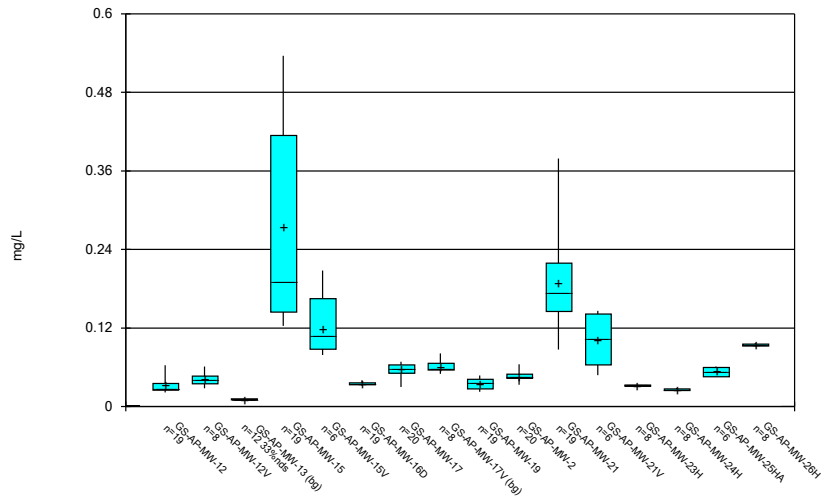
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



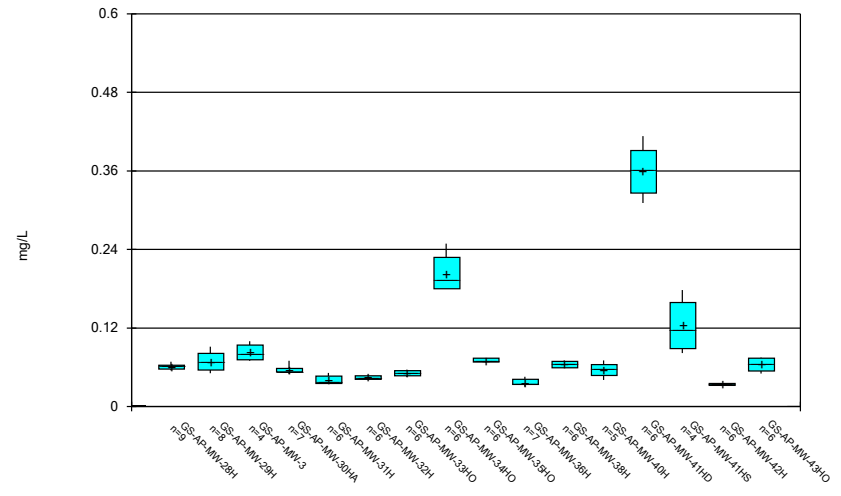
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



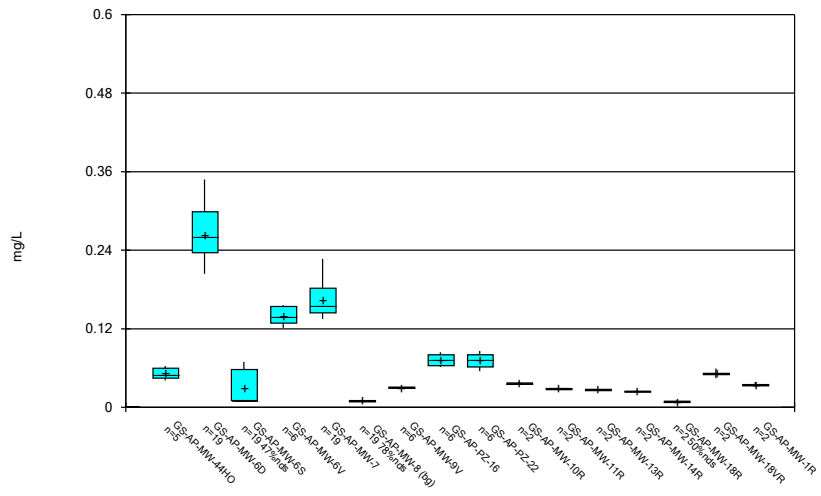
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



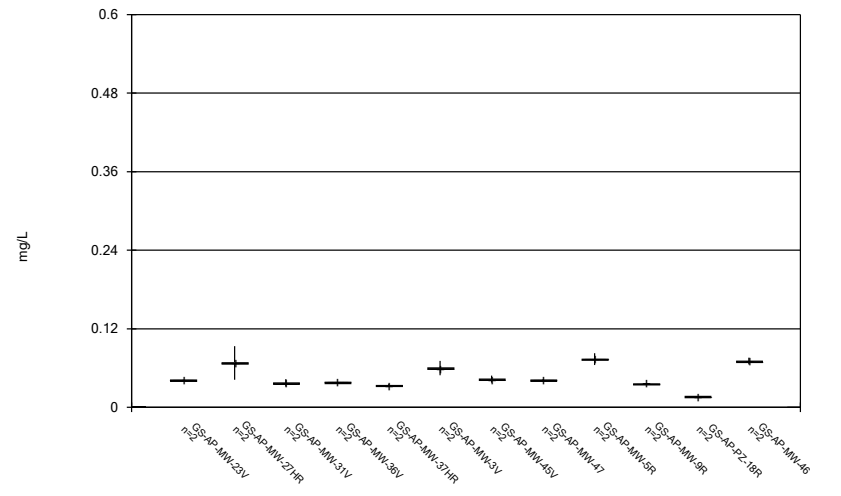
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



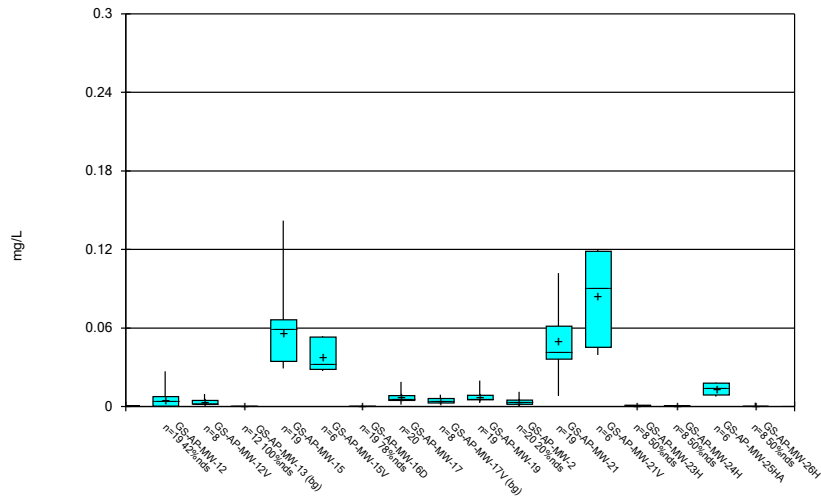
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



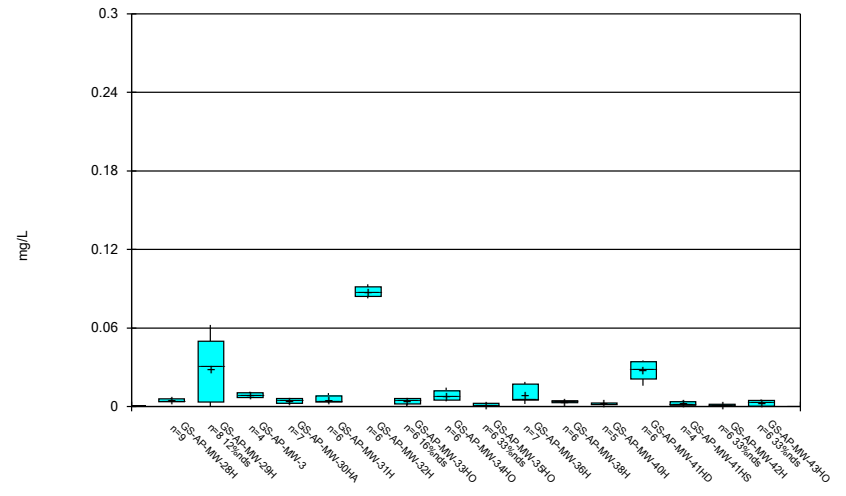
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



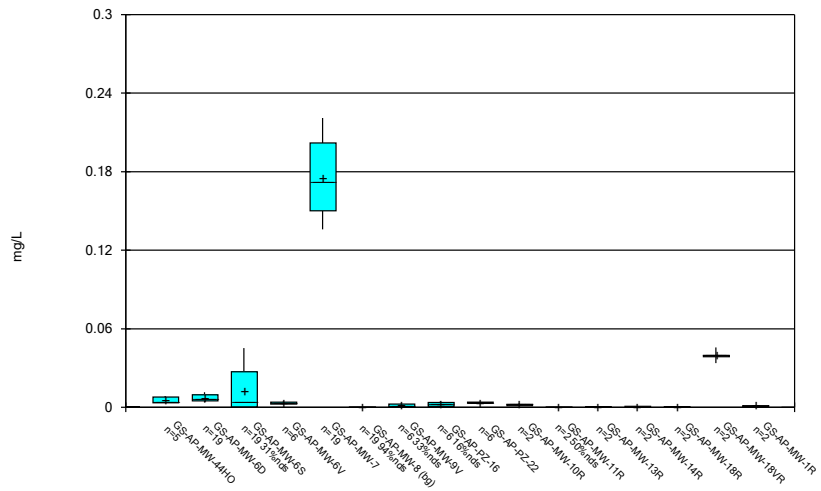
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



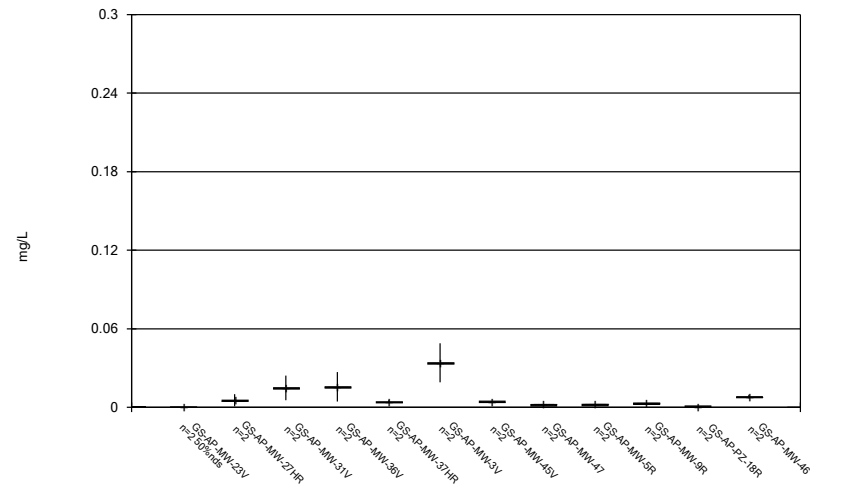
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



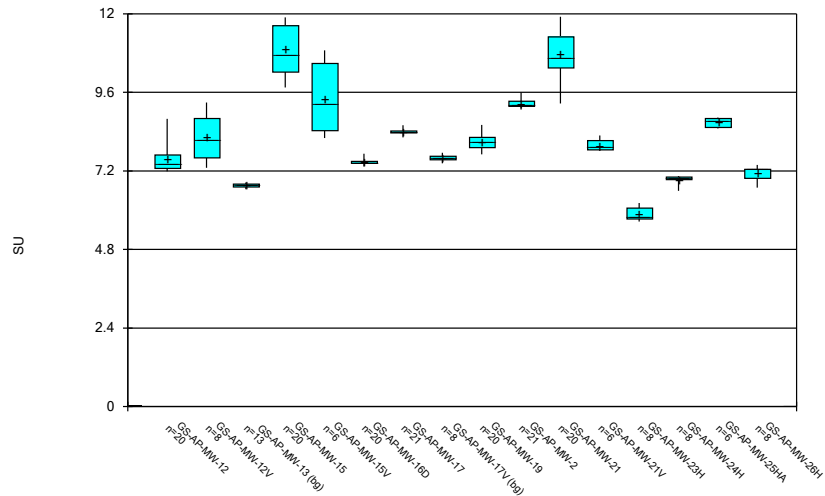
Constituent: Molybdenum Analysis Run 10/6/2022 3:15 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



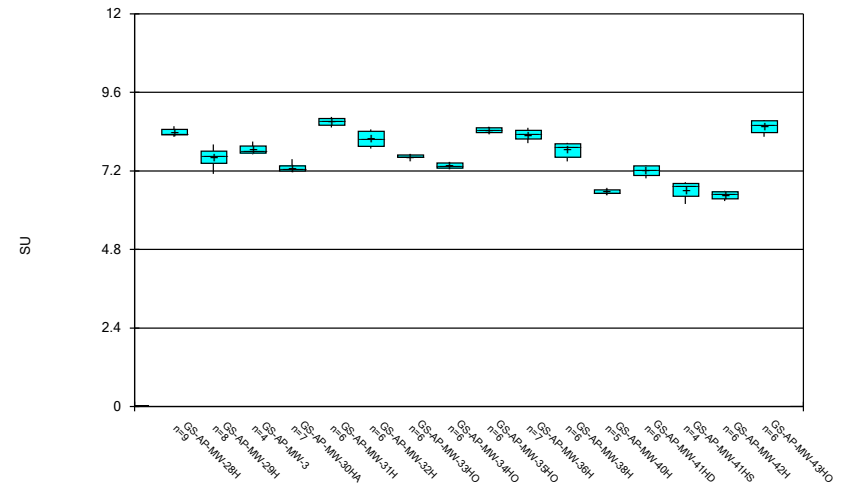
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



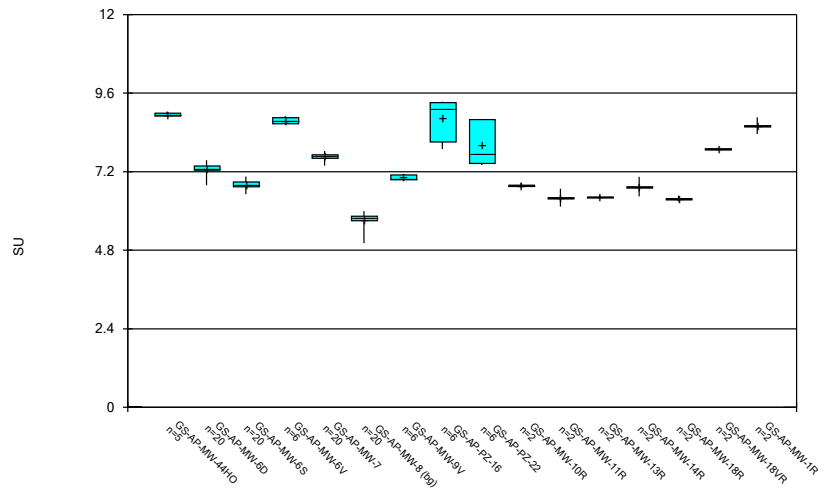
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



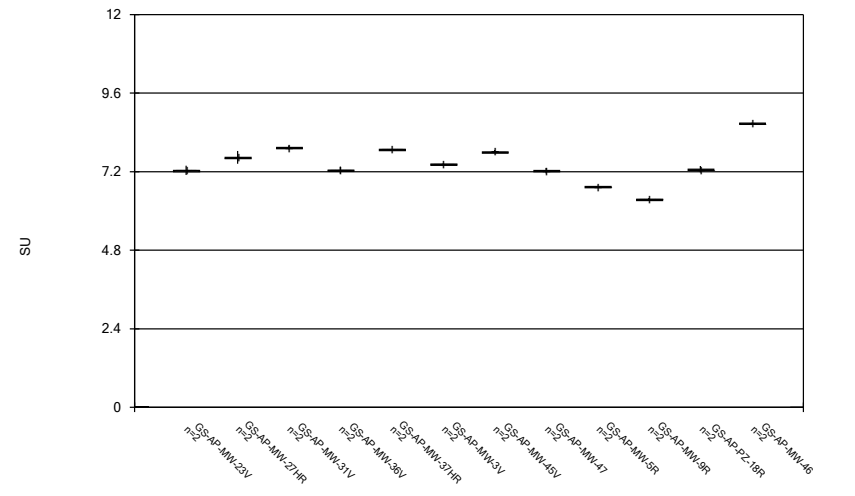
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



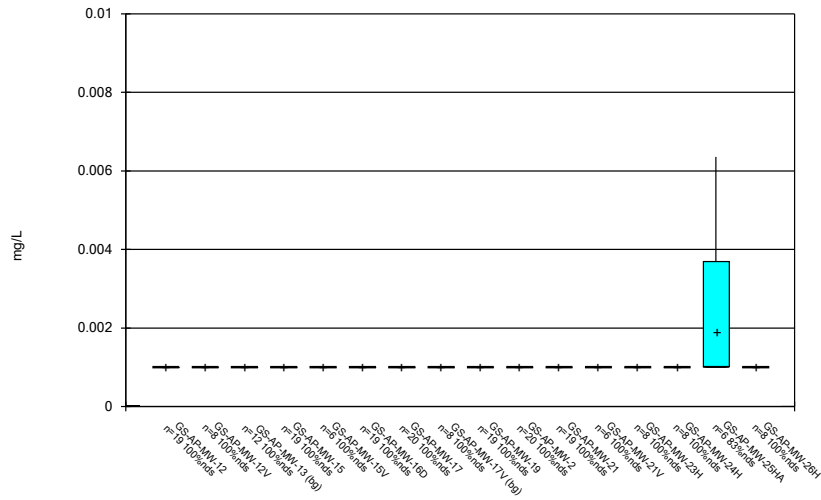
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



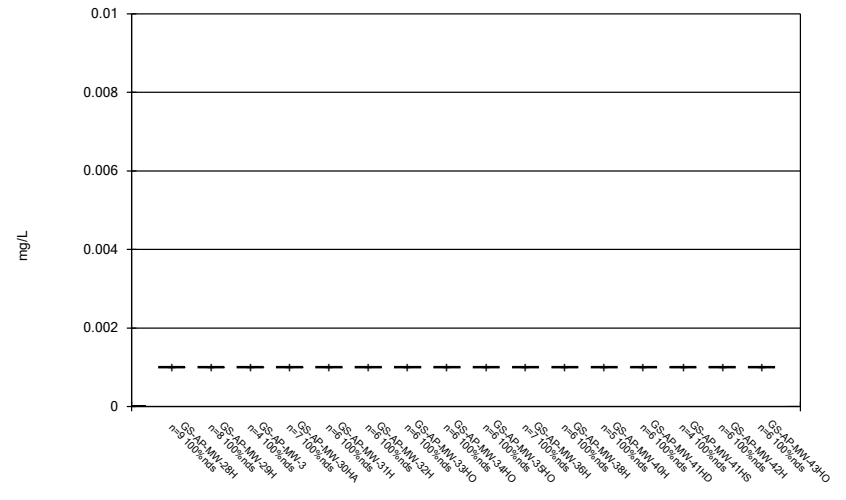
Constituent: pH Analysis Run 10/6/2022 3:16 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



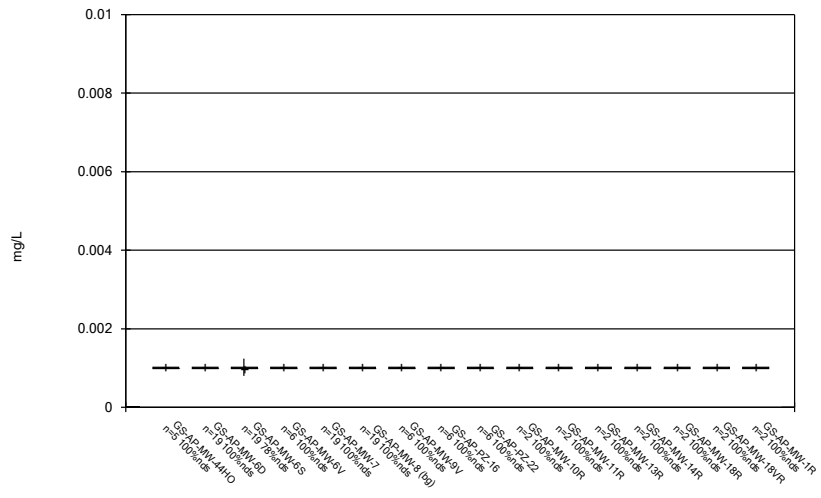
Constituent: Selenium Analysis Run 10/6/2022 3:16 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



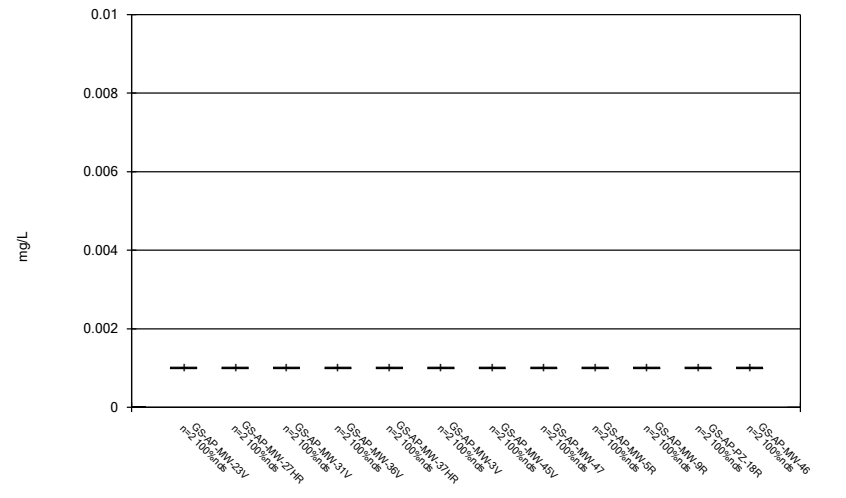
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



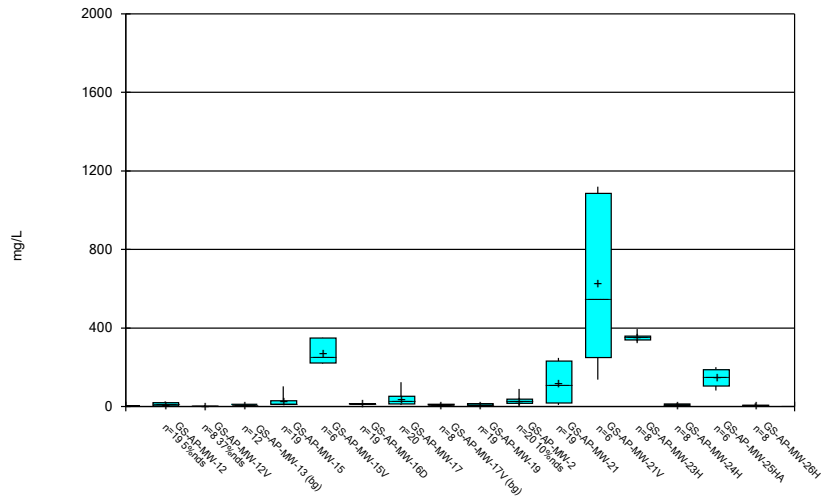
Constituent: Selenium Analysis Run 10/6/2022 3:16 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



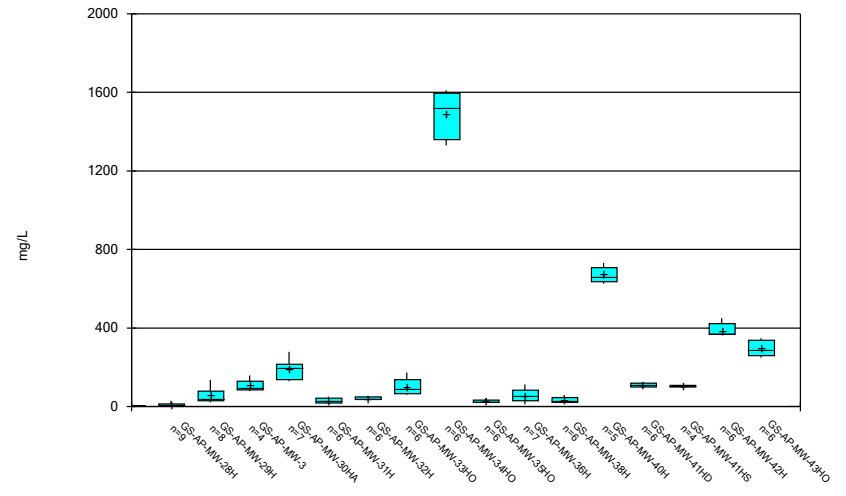
Constituent: Selenium Analysis Run 10/6/2022 3:16 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



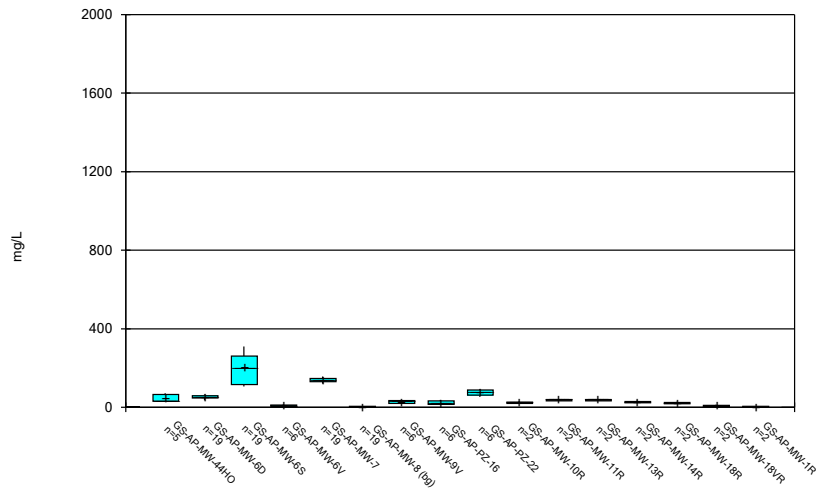
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



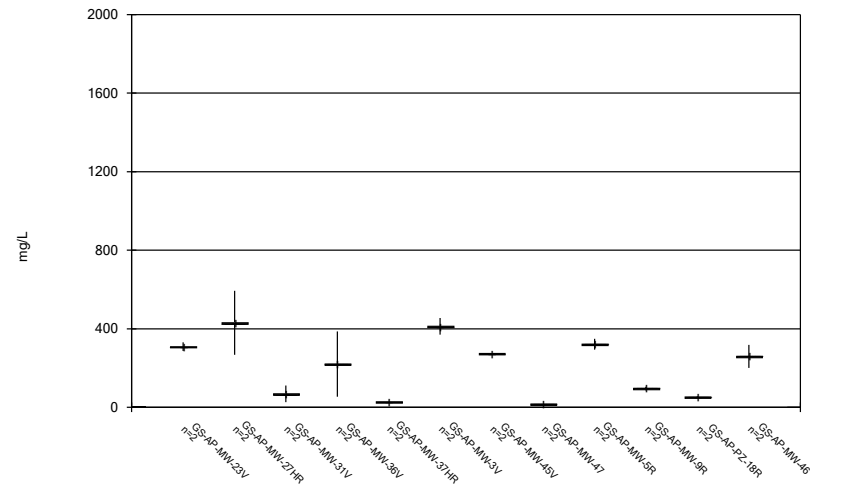
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



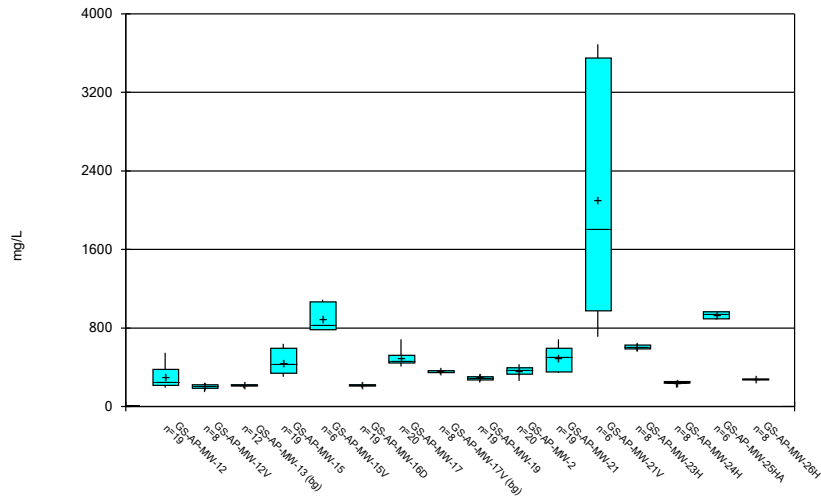
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



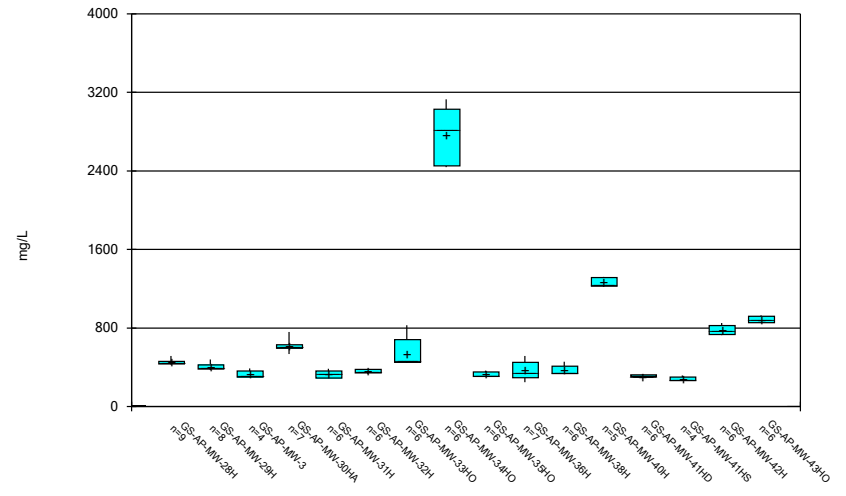
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



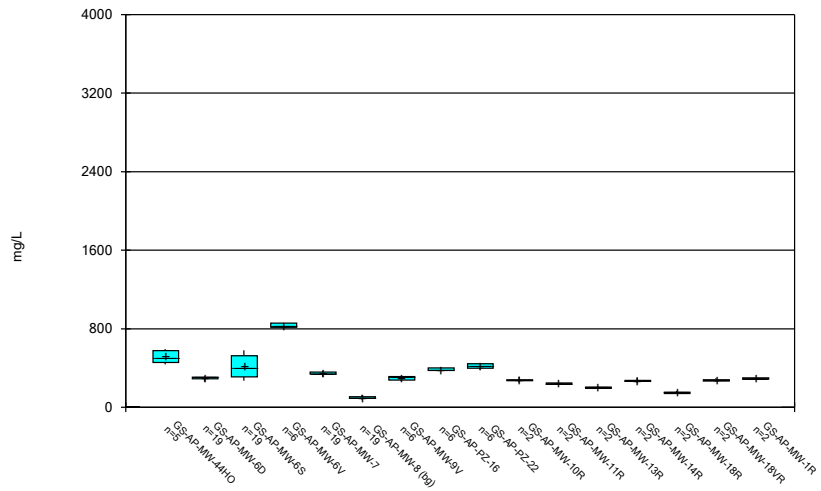
Constituent: TDS Analysis Run 10/6/2022 3:16 PM
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Box & Whiskers Plot



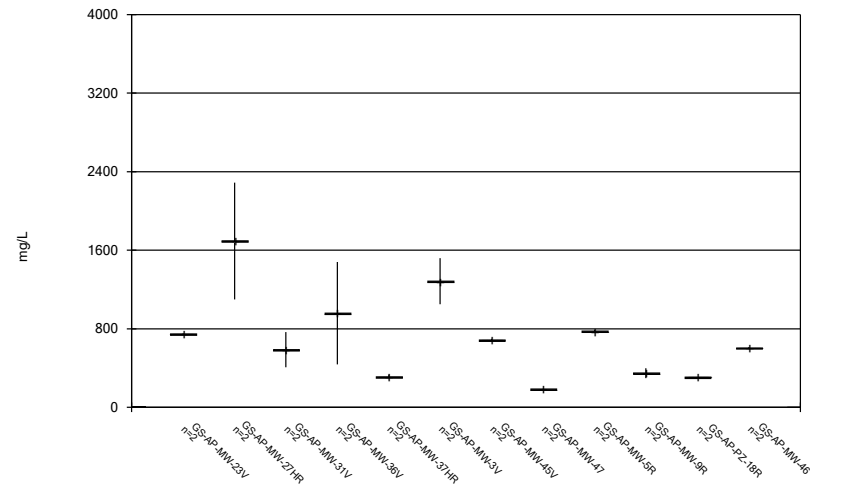
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



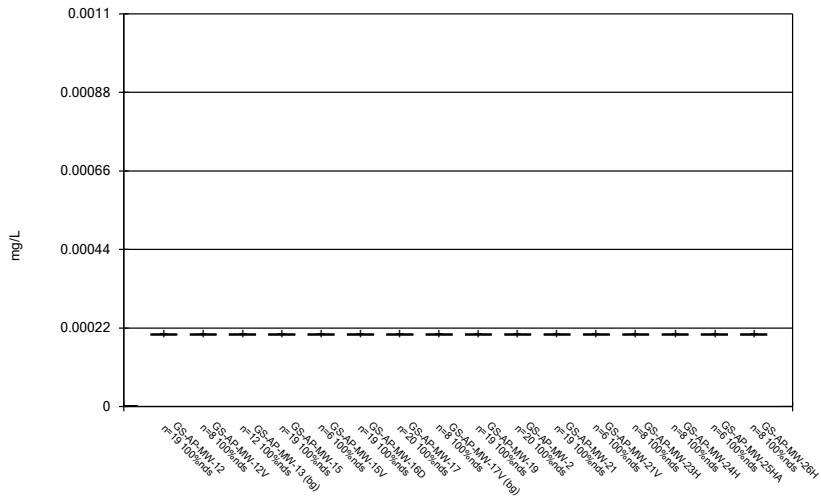
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



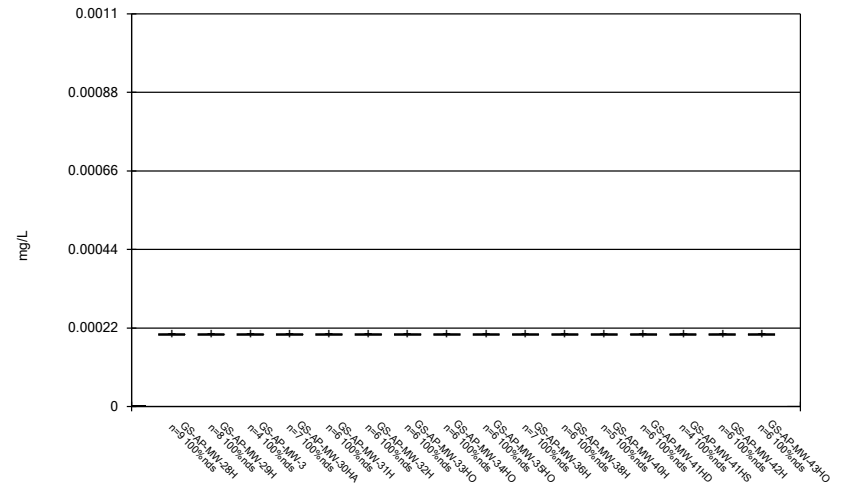
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Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



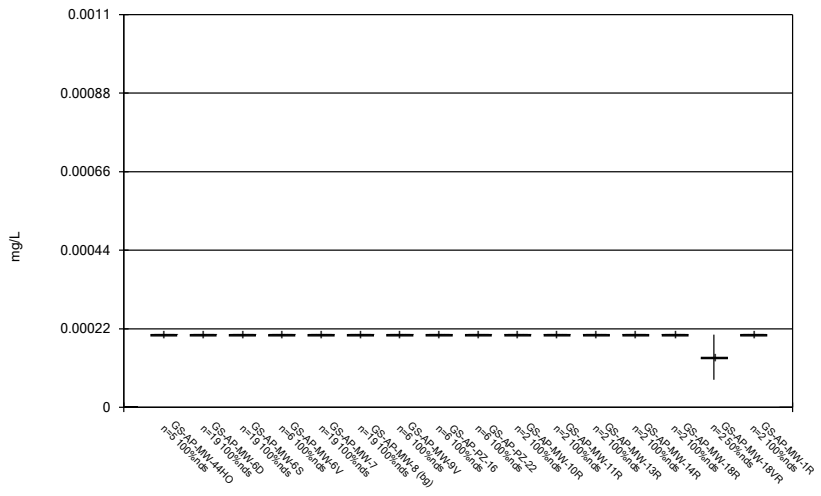
Constituent: Thallium Analysis Run 10/6/2022 3:16 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



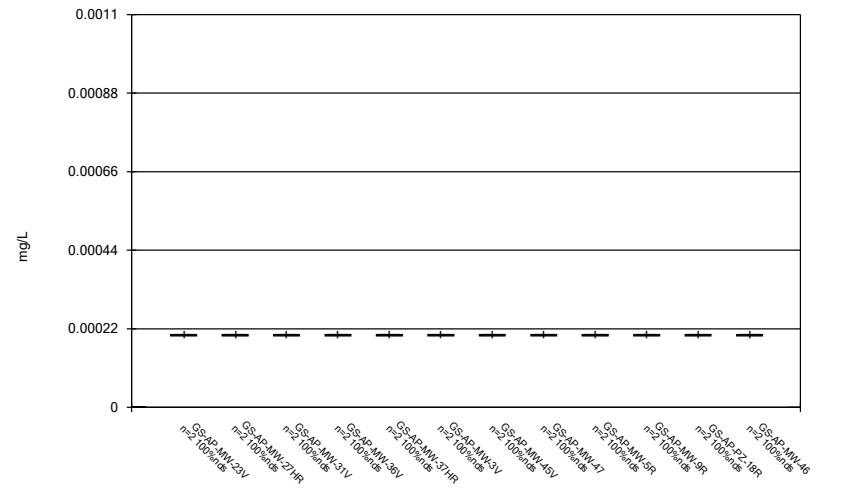
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 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/6/2022 3:16 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/6/2022 3:16 PM
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

FIGURE C.

Outlier Summary

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 11:23 AM

GS-AP-MW-21 Boron (mg/L)

8/2/2016 0.176 (o)

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 1:20 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------|--------------|------------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L) | GS-AP-MW-2 | 0.1015 | n/a | 7/19/2022 | 0.106 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-21 | 0.1015 | n/a | 8/10/2022 | 0.119 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6D | 0.1015 | n/a | 7/25/2022 | 1.39 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6S | 0.1015 | n/a | 7/26/2022 | 1.11 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-7 | 0.1015 | n/a | 7/25/2022 | 1.73 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-19 | 48.1 | n/a | 8/3/2022 | 56.4 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6D | 48.1 | n/a | 7/25/2022 | 57.9 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6S | 48.1 | n/a | 7/26/2022 | 51.8 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15 | 4.32 | n/a | 8/2/2022 | 4.36 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-17 | 4.32 | n/a | 8/8/2022 | 6.21 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-19 | 4.32 | n/a | 8/3/2022 | 5.35 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-2 | 4.32 | n/a | 7/19/2022 | 4.42 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-21 | 4.32 | n/a | 8/10/2022 | 44 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6D | 4.32 | n/a | 7/25/2022 | 9.533 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6S | 4.32 | n/a | 7/26/2022 | 22.9 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-7 | 4.32 | n/a | 7/25/2022 | 7.973 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.2825 | n/a | 8/2/2022 | 0.373 | Yes | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.2825 | n/a | 7/19/2022 | 0.752 | Yes | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| pH (SU) | GS-AP-MW-12 | 7.76 | 5.02 | 7/19/2022 | 8.79 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-12V | 7.76 | 5.02 | 7/20/2022 | 8.52 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15 | 7.76 | 5.02 | 8/2/2022 | 11.84 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-17 | 7.76 | 5.02 | 8/8/2022 | 8.38 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-19 | 7.76 | 5.02 | 8/3/2022 | 7.87 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-2 | 7.76 | 5.02 | 7/19/2022 | 9.6 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-21 | 7.76 | 5.02 | 8/10/2022 | 9.26 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-12 | 15.2 | n/a | 7/19/2022 | 18.5 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-16D | 15.2 | n/a | 8/2/2022 | 15.6 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-19 | 15.2 | n/a | 8/3/2022 | 17.1 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-2 | 15.2 | n/a | 7/19/2022 | 19.4 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-21 | 15.2 | n/a | 8/10/2022 | 245 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6D | 15.2 | n/a | 7/25/2022 | 57.6 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6S | 15.2 | n/a | 7/26/2022 | 106 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-7 | 15.2 | n/a | 7/25/2022 | 137.8 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15 | 368 | n/a | 8/2/2022 | 592 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-17 | 368 | n/a | 8/8/2022 | 446 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-21 | 368 | n/a | 8/10/2022 | 592 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |

Appendix III Interwell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 1:20 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|------------------------|---------------------|---------------|-------------|------------------|--------------|------------|-----------|---------------|----------------|--------------|-------------|------------|------------------|------------------------------------|
| Boron (mg/L) | GS-AP-MW-12 | 0.1015 | n/a | 7/19/2022 | 0.1015ND | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-12V | 0.1015 | n/a | 7/20/2022 | 0.1015ND | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-15 | 0.1015 | n/a | 8/2/2022 | 0.0426J | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-16D | 0.1015 | n/a | 8/2/2022 | 0.1015ND | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-17 | 0.1015 | n/a | 8/8/2022 | 0.0717J | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-19 | 0.1015 | n/a | 8/3/2022 | 0.0329J | No | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-2 | 0.1015 | n/a | 7/19/2022 | 0.106 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-21 | 0.1015 | n/a | 8/10/2022 | 0.119 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6D | 0.1015 | n/a | 7/25/2022 | 1.39 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-6S | 0.1015 | n/a | 7/26/2022 | 1.11 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Boron (mg/L) | GS-AP-MW-7 | 0.1015 | n/a | 7/25/2022 | 1.73 | Yes | 39 | n/a | n/a | 76.92 | n/a | n/a | 0.001163 | NP Inter (NDs) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-12 | 48.1 | n/a | 7/19/2022 | 37.6 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-12V | 48.1 | n/a | 7/20/2022 | 47.5 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-15 | 48.1 | n/a | 8/2/2022 | 3.31 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-16D | 48.1 | n/a | 8/2/2022 | 33.8 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-17 | 48.1 | n/a | 8/8/2022 | 2.44 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-19 | 48.1 | n/a | 8/3/2022 | 56.4 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-2 | 48.1 | n/a | 7/19/2022 | 0.359J | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-21 | 48.1 | n/a | 8/10/2022 | 3.49 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6D | 48.1 | n/a | 7/25/2022 | 57.9 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-6S | 48.1 | n/a | 7/26/2022 | 51.8 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | GS-AP-MW-7 | 48.1 | n/a | 7/25/2022 | 10.6 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-12 | 4.32 | n/a | 7/19/2022 | 2.99 | No | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-12V | 4.32 | n/a | 7/20/2022 | 3.85 | No | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-15 | 4.32 | n/a | 8/2/2022 | 4.36 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-16D | 4.32 | n/a | 8/2/2022 | 3.65 | No | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-17 | 4.32 | n/a | 8/8/2022 | 6.21 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-19 | 4.32 | n/a | 8/3/2022 | 5.35 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-2 | 4.32 | n/a | 7/19/2022 | 4.42 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-21 | 4.32 | n/a | 8/10/2022 | 44 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6D | 4.32 | n/a | 7/25/2022 | 9.533 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-6S | 4.32 | n/a | 7/26/2022 | 22.9 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Chloride (mg/L) | GS-AP-MW-7 | 4.32 | n/a | 7/25/2022 | 7.973 | Yes | 39 | 3.387 | 0.4446 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-12 | 0.2825 | n/a | 7/19/2022 | 0.0983J | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-12V | 0.2825 | n/a | 7/20/2022 | 0.18 | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.2825 | n/a | 8/2/2022 | 0.373 | Yes | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-16D | 0.2825 | n/a | 8/2/2022 | 0.112J | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-17 | 0.2825 | n/a | 8/8/2022 | 0.257 | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-19 | 0.2825 | n/a | 8/3/2022 | 0.231 | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.2825 | n/a | 7/19/2022 | 0.752 | Yes | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-21 | 0.2825 | n/a | 8/10/2022 | 0.186 | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-6D | 0.2825 | n/a | 7/25/2022 | 0.0978J | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-6S | 0.2825 | n/a | 7/26/2022 | 0.164 | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| Fluoride (mg/L) | GS-AP-MW-7 | 0.2825 | n/a | 7/25/2022 | 0.0896J | No | 41 | 0.1411 | 0.06766 | 0 | None | No | 0.0006839 | Param Inter 1 of 2 |
| pH (SU) | GS-AP-MW-12 | 7.76 | 5.02 | 7/19/2022 | 8.79 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-12V | 7.76 | 5.02 | 7/20/2022 | 8.52 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-15 | 7.76 | 5.02 | 8/2/2022 | 11.84 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-16D | 7.76 | 5.02 | 8/2/2022 | 7.49 | No | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-17 | 7.76 | 5.02 | 8/8/2022 | 8.38 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-19 | 7.76 | 5.02 | 8/3/2022 | 7.87 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-2 | 7.76 | 5.02 | 7/19/2022 | 9.6 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-21 | 7.76 | 5.02 | 8/10/2022 | 9.26 | Yes | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-6D | 7.76 | 5.02 | 7/25/2022 | 6.95 | No | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-6S | 7.76 | 5.02 | 7/26/2022 | 6.97 | No | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |
| pH (SU) | GS-AP-MW-7 | 7.76 | 5.02 | 7/25/2022 | 7.64 | No | 41 | n/a | n/a | 0 | n/a | n/a | 0.00213 | NP Inter (normality) 1 of 2 |

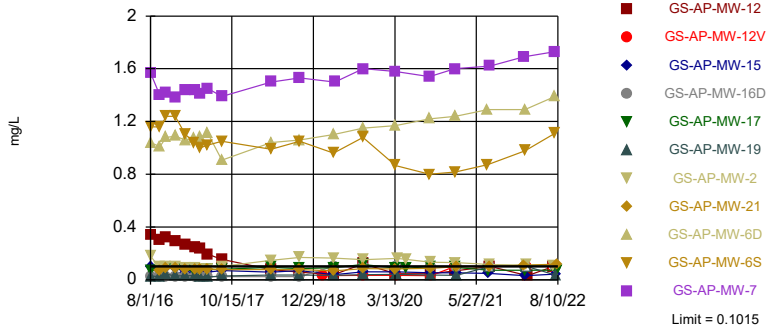
Appendix III Interwell Prediction Limits - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 1:20 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|---------------------|-------------|------------|------------------|--------------|------------|-----------|------------|------------|----------|------------|------------|-----------------|------------------------------------|
| Sulfate (mg/L) | GS-AP-MW-12 | 15.2 | n/a | 7/19/2022 | 18.5 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-12V | 15.2 | n/a | 7/20/2022 | 1.08J | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-15 | 15.2 | n/a | 8/2/2022 | 9.11 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-16D | 15.2 | n/a | 8/2/2022 | 15.6 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-17 | 15.2 | n/a | 8/8/2022 | 8.35 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-19 | 15.2 | n/a | 8/3/2022 | 17.1 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-2 | 15.2 | n/a | 7/19/2022 | 19.4 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-21 | 15.2 | n/a | 8/10/2022 | 245 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6D | 15.2 | n/a | 7/25/2022 | 57.6 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-6S | 15.2 | n/a | 7/26/2022 | 106 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | GS-AP-MW-7 | 15.2 | n/a | 7/25/2022 | 137.8 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-12 | 368 | n/a | 7/19/2022 | 199 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-12V | 368 | n/a | 7/20/2022 | 189 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-15 | 368 | n/a | 8/2/2022 | 592 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-16D | 368 | n/a | 8/2/2022 | 210 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-17 | 368 | n/a | 8/8/2022 | 446 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-19 | 368 | n/a | 8/3/2022 | 327 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-2 | 368 | n/a | 7/19/2022 | 262 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-21 | 368 | n/a | 8/10/2022 | 592 | Yes | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-6D | 368 | n/a | 7/25/2022 | 286 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-6S | 368 | n/a | 7/26/2022 | 311 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |
| TDS (mg/L) | GS-AP-MW-7 | 368 | n/a | 7/25/2022 | 308.3 | No | 39 | n/a | n/a | 0 | n/a | n/a | 0.001163 | NP Inter (normality) 1 of 2 |

Exceeds Limit: GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-6D, GS-AP-MW-6S, GS-AP-MW-7

Prediction Limit
Interwell Non-parametric

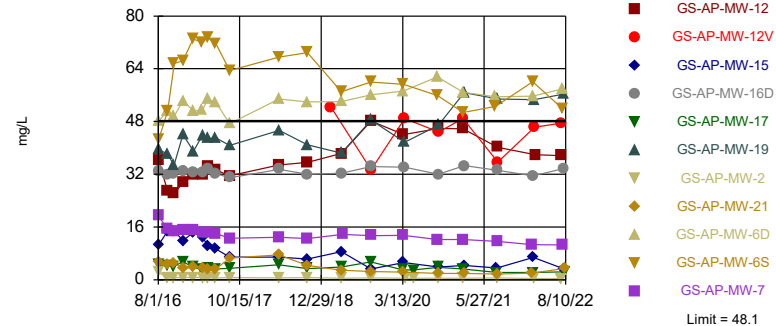


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 76.92% NDs. Annual per-constituent alpha = 0.02528. Individual comparison alpha = 0.001163 (1 of 2). Comparing 11 points to limit.

Constituent: Boron Analysis Run 10/4/2022 1:19 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limit: GS-AP-MW-19, GS-AP-MW-6D, GS-AP-MW-6S

Prediction Limit
Interwell Non-parametric

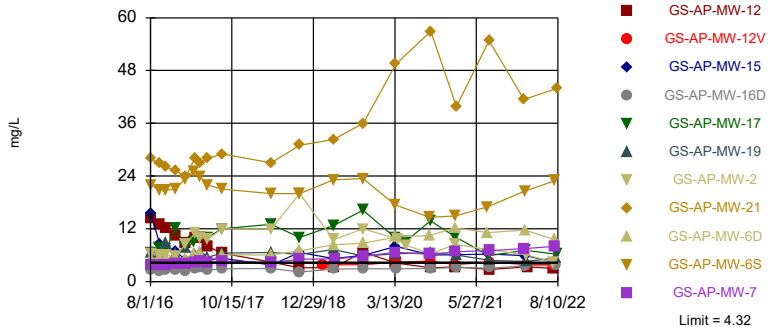


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. Annual per-constituent alpha = 0.02528. Individual comparison alpha = 0.001163 (1 of 2). Comparing 11 points to limit.

Constituent: Calcium Analysis Run 10/4/2022 1:19 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limit: GS-AP-MW-15, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-6D, GS-AP-MW-6S,...

Prediction Limit
Interwell Parametric

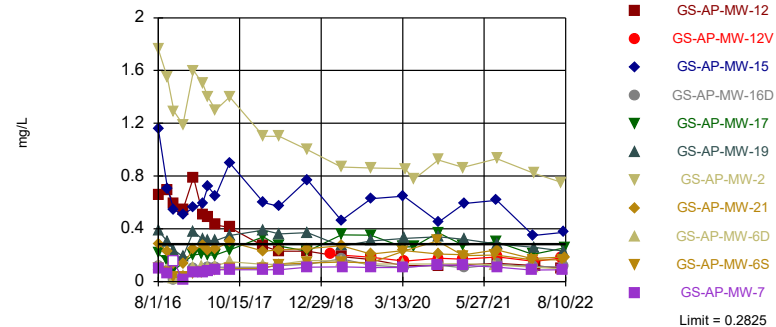


Background Data Summary: Mean=3.387, Std. Dev.=0.4446, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9549, critical = 0.917. Kappa = 2.099 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0006839. Comparing 11 points to limit.

Constituent: Chloride Analysis Run 10/4/2022 1:19 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limit: GS-AP-MW-15, GS-AP-MW-2

Prediction Limit
Interwell Parametric

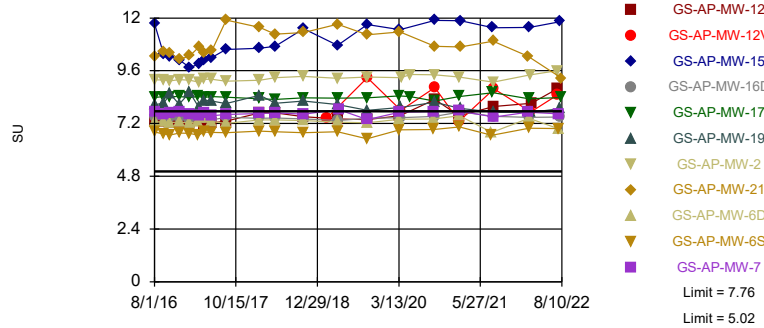


Background Data Summary: Mean=0.1411, Std. Dev.=0.06766, n=41. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9326, critical = 0.92. Kappa = 2.091 (c=7, w=11, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0006839. Comparing 11 points to limit.

Constituent: Fluoride Analysis Run 10/4/2022 1:19 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limits: GS-AP-MW-12, GS-AP-MW-12V, GS-AP-MW-15, GS-AP-MW-17, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21

Prediction Limit
Interwell Non-parametric



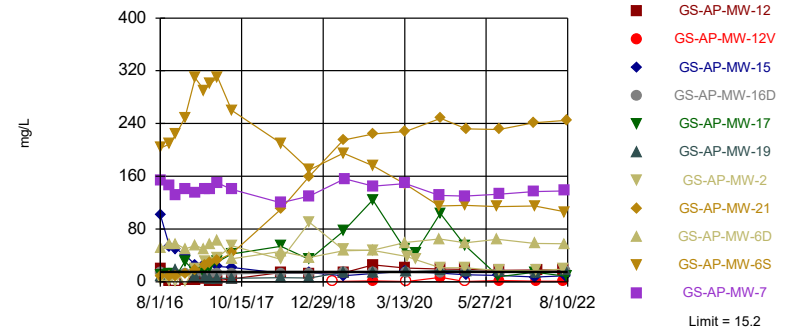
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 41 background values. Annual per-constituent alpha = 0.04634. Individual comparison alpha = 0.00213 (1 of 2). Comparing 11 points to limit.

Constituent: pH Analysis Run 10/4/2022 1:19 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: GS-AP-MW-12, GS-AP-MW-16D, GS-AP-MW-19, GS-AP-MW-2, GS-AP-MW-21, GS-AP-MW-6D, GS-AP-MW-6S,...

Prediction Limit
Interwell Non-parametric

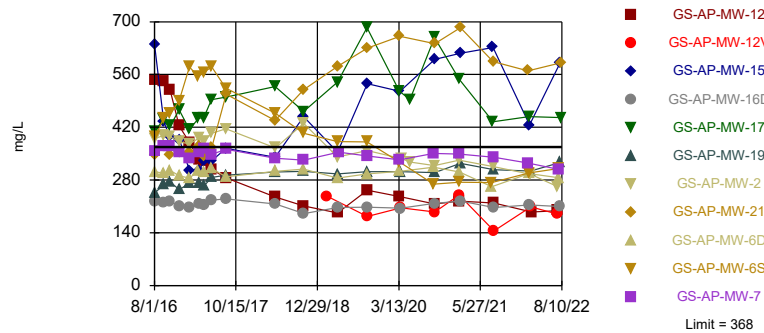


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. Annual per-constituent alpha = 0.02528. Individual comparison alpha = 0.001163 (1 of 2). Comparing 11 points to limit.

Constituent: Sulfate Analysis Run 10/4/2022 1:19 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Exceeds Limit: GS-AP-MW-15, GS-AP-MW-17, GS-AP-MW-21

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. Annual per-constituent alpha = 0.02528. Individual comparison alpha = 0.001163 (1 of 2). Comparing 11 points to limit.

Constituent: TDS Analysis Run 10/4/2022 1:19 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-15 | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-13 (bg) | GS-AP-MW-7 | GS-AP-MW-2 | GS-AP-MW-8 (bg) | GS-AP-MW-12 |
|------------|-------------|--------------|-------------|-------------|------------------|------------|------------|-----------------|-------------|
| 8/1/2016 | 0.0955 (J) | 0.0266 (J) | 0.0712 (J) | 0.0279 (J) | | | | | |
| 8/2/2016 | | | | | <0.1015 | 1.57 | 0.178 | | |
| 8/3/2016 | | | | | | | | 0.0239 (J) | 0.34 |
| 9/19/2016 | | 0.0262 (J) | 0.0716 (J) | | | | 0.0937 (J) | | |
| 9/20/2016 | 0.0706 (J) | | | | <0.1015 | | | | 0.299 |
| 9/21/2016 | | | | 0.0235 (J) | | 1.4 | | <0.1015 | |
| 10/24/2016 | | | 0.0858 (J) | 0.0444 (J) | | 1.42 | 0.0986 (J) | | |
| 10/25/2016 | 0.0849 (J) | 0.0273 (J) | | | <0.1015 | | | <0.1015 | 0.323 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | 1.38 | | | |
| 12/13/2016 | | 0.0258 (J) | 0.0875 (J) | 0.0285 (J) | <0.1015 | | 0.0965 (J) | <0.1015 | 0.294 |
| 12/14/2016 | 0.0914 (J) | | | | | | | | |
| 2/6/2017 | | | 0.0729 (J) | | | 1.44 | | <0.1015 | |
| 2/7/2017 | | | | 0.03 (J) | | | | | |
| 2/8/2017 | 0.0524 (J) | 0.0249 (J) | | | <0.1015 | | 0.0896 (J) | | 0.264 |
| 3/27/2017 | | | 0.0706 (J) | | | | | | |
| 3/28/2017 | 0.0532 (J) | | | 0.0309 (J) | | 1.44 | | <0.1015 | |
| 3/29/2017 | | 0.0247 (J) | | | <0.1015 | | | | 0.246 |
| 3/30/2017 | | | | | | | 0.0871 (J) | | |
| 4/24/2017 | | | 0.0737 (J) | | | 1.41 | | <0.1015 | |
| 4/26/2017 | 0.0598 (J) | 0.0264 (J) | | 0.0273 (J) | <0.1015 | | 0.0818 (J) | | 0.234 |
| 6/5/2017 | | | 0.0767 (J) | | | | | | |
| 6/6/2017 | 0.0576 (J) | 0.0247 (J) | | 0.0212 (J) | | | 0.0805 (J) | | |
| 6/7/2017 | | | | | <0.1015 | 1.45 | | <0.1015 | 0.194 |
| 8/21/2017 | | | | | | 1.39 | 0.102 | <0.1015 | |
| 8/22/2017 | 0.0702 (J) | 0.0246 (J) | 0.0786 (J) | 0.0294 (J) | <0.1015 | | | | 0.156 |
| 8/23/2017 | | | | | | | | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | 0.0567 (J) | | 0.0953 (J) | | <0.1015 | 1.5 | | <0.1015 | 0.0781 (J) |
| 5/16/2018 | | 0.0247 (J) | | 0.0356 (J) | | | 0.147 | | |
| 10/15/2018 | 0.07 (J) | | 0.0842 (J) | | | 1.53 | | | |
| 10/16/2018 | | | | 0.0363 (J) | | | 0.169 | <0.1015 | 0.057 (J) |
| 10/17/2018 | | 0.0251 (J) | | | <0.1015 | | | | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | <0.1015 | | | <0.1015 | 0.0385 (J) |
| 4/17/2019 | 0.0388 (J) | <0.1015 | 0.0916 (J) | 0.0336 (J) | | | 0.165 | | |
| 4/23/2019 | | | | | | 1.5 | | | |
| 9/23/2019 | | | 0.116 | | | | | | |
| 9/24/2019 | 0.0607 (J) | <0.1015 | | 0.0375 (J) | | 1.6 | | <0.1015 | |
| 9/25/2019 | | | | | | | 0.153 | | 0.122 |
| 3/16/2020 | | | 0.0894 (J) | | | | | | |
| 3/17/2020 | | | | | | 1.58 | | | |
| 3/18/2020 | 0.0596 (J) | | | | | | | <0.1015 | 0.0449 (J) |
| 3/24/2020 | | <0.1015 | | 0.0398 (J) | | | | | |
| 3/25/2020 | | | | | | | 0.163 | | |
| 5/12/2020 | | | 0.0862 (J) | | | | | | |
| 5/13/2020 | | | | | | | 0.154 | | |
| 9/16/2020 | | | | | | 1.54 | | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | | 0.102 | | | | | <0.1015 | |
| 9/22/2020 | | <0.1015 | | 0.037 (J) | | | 0.133 | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6S | GS-AP-MW-6D | GS-AP-MW-21 | GS-AP-MW-17V ... | GS-AP-MW-12V |
|------------|-------------|-------------|-------------|------------------|--------------|
| 8/1/2016 | | | | | |
| 8/2/2016 | | | 0.176 (o) | | |
| 8/3/2016 | 1.16 | 1.04 | | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 1.16 | 1.01 | | | |
| 9/21/2016 | | | 0.0723 (J) | | |
| 10/24/2016 | | 1.08 | | | |
| 10/25/2016 | | | 0.0867 (J) | | |
| 10/26/2016 | 1.24 | | | | |
| 12/12/2016 | 1.24 | 1.09 | | | |
| 12/13/2016 | | | | | |
| 12/14/2016 | | | 0.092 (J) | | |
| 2/6/2017 | 1.1 | 1.06 | | | |
| 2/7/2017 | | | | | |
| 2/8/2017 | | | 0.0803 (J) | | |
| 3/27/2017 | 1.04 | 1.07 | | | |
| 3/28/2017 | | | 0.0804 (J) | | |
| 3/29/2017 | | | | | |
| 3/30/2017 | | | | | |
| 4/24/2017 | 1 | 1.08 | | | |
| 4/26/2017 | | | 0.0801 (J) | | |
| 6/5/2017 | | | | | |
| 6/6/2017 | 1.02 | 1.11 | 0.0795 (J) | | |
| 6/7/2017 | | | | | |
| 8/21/2017 | 1.05 | 0.906 | | | |
| 8/22/2017 | | | | | |
| 8/23/2017 | | | 0.0764 (J) | | |
| 5/14/2018 | 0.99 | 1.04 | | | |
| 5/15/2018 | | | 0.0769 (J) | | |
| 5/16/2018 | | | | | |
| 10/15/2018 | 1.05 | 1.06 | | | |
| 10/16/2018 | | | 0.0764 (J) | | |
| 10/17/2018 | | | | | |
| 2/20/2019 | | | | 0.0337 (J) | |
| 2/21/2019 | | | | | 0.0303 (J) |
| 4/16/2019 | 0.961 | 1.1 | | | |
| 4/17/2019 | | | 0.0675 (J) | | |
| 4/23/2019 | | | | | |
| 9/23/2019 | 1.08 | 1.15 | | | |
| 9/24/2019 | | | 0.0843 (J) | 0.0532 (J) | |
| 9/25/2019 | | | | | 0.0347 (J) |
| 3/16/2020 | | | | | |
| 3/17/2020 | 0.867 | 1.17 | | | |
| 3/18/2020 | | | 0.0824 (J) | | |
| 3/24/2020 | | | | | 0.0343 (J) |
| 3/25/2020 | | | | 0.0482 (J) | |
| 5/12/2020 | | | | | |
| 5/13/2020 | | | | | |
| 9/16/2020 | 0.8 | | | | |
| 9/17/2020 | | 1.22 | | | |
| 9/21/2020 | | | | | |
| 9/22/2020 | | | | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6S | GS-AP-MW-6D | GS-AP-MW-21 | GS-AP-MW-17V ... | GS-AP-MW-12V |
|-----------|-------------|-------------|-------------|------------------|--------------|
| 9/23/2020 | | | 0.0871 (J) | 0.0478 (J) | 0.0322 (J) |
| 2/1/2021 | | | | | <0.1015 |
| 2/2/2021 | | | | 0.0396 (J) | |
| 2/3/2021 | 0.817 | 1.24 | | | |
| 2/8/2021 | | | 0.0991 (J) | | |
| 2/9/2021 | | | | | |
| 2/10/2021 | | | | | |
| 7/27/2021 | 0.873 | 1.29 | | | |
| 8/2/2021 | | | | 0.0368 (J) | |
| 8/3/2021 | | | | | |
| 8/4/2021 | | | 0.0993 (J) | | |
| 8/9/2021 | | | | | <0.1015 |
| 8/10/2021 | | | | | |
| 2/8/2022 | | | 0.111 | | |
| 2/14/2022 | 0.978 | 1.29 | | 0.0386 (J) | |
| 2/15/2022 | | | | | |
| 2/16/2022 | | | | | |
| 2/22/2022 | | | | | |
| 2/23/2022 | | | | | <0.1015 |
| 2/28/2022 | | | | | |
| 7/19/2022 | | | | | |
| 7/20/2022 | | | | | <0.1015 |
| 7/25/2022 | | 1.39 | | | |
| 7/26/2022 | 1.11 | | | | |
| 8/2/2022 | | | | | |
| 8/3/2022 | | | | | |
| 8/8/2022 | | | | | |
| 8/9/2022 | | | | 0.0418 (J) | |
| 8/10/2022 | | | 0.119 | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|------------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 8/1/2016 | 39.6 | 4.52 | 33 | 10.5 | | | | | |
| 8/2/2016 | | | | | 5.29 | 2.25 | 19.4 | 47.2 | |
| 8/3/2016 | | | | | | | | | 36.1 |
| 9/19/2016 | | 4.3 | 31.7 | | | 0.724 | | | |
| 9/20/2016 | | | | 14.7 | | | | 46.3 | 27 |
| 9/21/2016 | 38.1 | | | | 4.51 | | 15.4 | | |
| 10/24/2016 | 34.7 | 4.02 | | | | 0.635 | 14.8 | | |
| 10/25/2016 | | | 32.2 | 14.7 | 4.92 | | | 46.6 | 26.1 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | | 15 | | |
| 12/13/2016 | 44 | 5.5 | 33.1 | | | 0.714 | | 43.1 | 29.4 |
| 12/14/2016 | | | | 11.9 | 3.5 | | | | |
| 2/6/2017 | | 3.79 | | | | | 14.9 | | |
| 2/7/2017 | 39 | | | | | | | | |
| 2/8/2017 | | | 32.7 | 14.4 | 3.75 | 0.722 | | 47.5 | 31.9 |
| 3/27/2017 | | 3.13 | | | | | | | |
| 3/28/2017 | 43.9 | | | 12.9 | 3.63 | | 14.3 | | |
| 3/29/2017 | | | 32.7 | | | | | 46.8 | 31.8 |
| 3/30/2017 | | | | | | 0.686 | | | |
| 4/24/2017 | | 3.41 | | | | | 14.5 | | |
| 4/26/2017 | 42.8 | | 33.8 | 10.4 | 3.3 | 0.646 | | 48.1 | 34.6 |
| 6/5/2017 | | 3.32 | | | | | | | |
| 6/6/2017 | 43.1 | | 32.2 | 9.41 | 3.24 | 0.569 | | | |
| 6/7/2017 | | | | | | | 14.1 | 44.4 | 33.4 |
| 8/21/2017 | | | | | | 0.634 | 12.6 | | |
| 8/22/2017 | 40.7 | 3.52 | 30.9 | 6.89 | | | | 42.9 | 31.5 |
| 8/23/2017 | | | | | 6.6 | | | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 4.53 | | 6.86 | 7.57 | | 12.9 | 44.3 | 34.8 |
| 5/16/2018 | 45.3 | | 33.5 | | | 0.588 | | | |
| 10/15/2018 | | 3.38 | | 6.28 | | | 12.5 | | |
| 10/16/2018 | 40.9 | | | | 4.4 | 0.714 | | | 35.6 |
| 10/17/2018 | | | 32 | | | | | 41.8 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 38.6 | 38.3 |
| 4/17/2019 | 38.4 | 3.86 | 32.3 | 8.53 | 2.88 | 0.511 | | | |
| 4/23/2019 | | | | | | | 13.8 | | |
| 9/23/2019 | | 5.43 | | | | | | | |
| 9/24/2019 | 48.4 | | 34.3 | 3.26 | 2.47 | | 13.4 | | |
| 9/25/2019 | | | | | | 0.581 | | | 48.1 |
| 3/16/2020 | | 3 | | | | | | | |
| 3/17/2020 | | | | | | | 13.5 | | |
| 3/18/2020 | | | | 5.25 | 2.35 | | | | 44 |
| 3/24/2020 | 41.7 | | 34.1 | | | | | | |
| 3/25/2020 | | | | | | 0.518 | | | |
| 5/12/2020 | | 2.95 | | | | | | | |
| 5/13/2020 | | | | | | 0.493 (J) | | | |
| 9/16/2020 | | | | | | | 12.2 | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 3.73 | | | | | | | |
| 9/22/2020 | 46.9 | | 32 | | | 0.503 | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|-----------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 9/23/2020 | | | | 3.83 | 1.96 | | | | 45.9 |
| 2/1/2021 | | | | | | 0.517 | | | 45.8 |
| 2/2/2021 | | 3.3 | | | | | 12.2 | | |
| 2/3/2021 | | | | | | | | | |
| 2/8/2021 | 56.8 | | | | 1.95 | | | | |
| 2/9/2021 | | | | 4.38 | | | | | |
| 2/10/2021 | | | 34.6 | | | | | | |
| 7/27/2021 | | | | | | | | | |
| 8/2/2021 | | | | | | | | | |
| 8/3/2021 | | 2.17 | | 3.55 | | | | | |
| 8/4/2021 | | | | | 1.76 | 0.564 | | | |
| 8/9/2021 | | | 33.2 | | | | 11.6 | | 40.2 |
| 8/10/2021 | 54.8 | | | | | | | | |
| 2/8/2022 | | | | | 1.98 | | 10.7 | | |
| 2/14/2022 | | 2.17 | | | | | | | |
| 2/15/2022 | | | 31.5 | | | | | | |
| 2/16/2022 | | | | 6.76 | | | | | |
| 2/22/2022 | 54.6 | | | | | 0.413 | | | |
| 2/23/2022 | | | | | | | | | |
| 2/28/2022 | | | | | | | | | 37.9 |
| 7/19/2022 | | | | | | 0.359 (J) | | | 37.599998 |
| 7/20/2022 | | | | | | | | | |
| 7/25/2022 | | | | | | | 10.6 | | |
| 7/26/2022 | | | | | | | | | |
| 8/2/2022 | | | 33.799999 | 3.31 | | | | | |
| 8/3/2022 | 56.400002 | | | | | | | | |
| 8/8/2022 | | 2.44 | | | | | | | |
| 8/9/2022 | | | | | | | | | |
| 8/10/2022 | | | | | 3.49 | | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|------------|-------------|-----------------|-------------|------------------|--------------|
| 8/1/2016 | | | | | |
| 8/2/2016 | | | | | |
| 8/3/2016 | 48.1 | 6.85 | 42.5 | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 51.2 | | 51.1 | | |
| 9/21/2016 | | 11.7 | | | |
| 10/24/2016 | 49.5 | | | | |
| 10/25/2016 | | 10.8 | | | |
| 10/26/2016 | | | 65.6 | | |
| 12/12/2016 | 54.3 | | 66.5 | | |
| 12/13/2016 | | 5.86 | | | |
| 12/14/2016 | | | | | |
| 2/6/2017 | 51.2 | 9.76 | 73.1 | | |
| 2/7/2017 | | | | | |
| 2/8/2017 | | | | | |
| 3/27/2017 | 51.4 | | 71.9 | | |
| 3/28/2017 | | 5.28 | | | |
| 3/29/2017 | | | | | |
| 3/30/2017 | | | | | |
| 4/24/2017 | 54.7 | 6.89 | 73.5 | | |
| 4/26/2017 | | | | | |
| 6/5/2017 | | | | | |
| 6/6/2017 | 53.9 | | 71.8 | | |
| 6/7/2017 | | 3.58 | | | |
| 8/21/2017 | 47.3 | 3.38 | 63.5 | | |
| 8/22/2017 | | | | | |
| 8/23/2017 | | | | | |
| 5/14/2018 | 54.8 | | 67.5 | | |
| 5/15/2018 | | 4.25 | | | |
| 5/16/2018 | | | | | |
| 10/15/2018 | 53.9 | | 68.9 | | |
| 10/16/2018 | | 3.21 | | | |
| 10/17/2018 | | | | | |
| 2/20/2019 | | | | 30.6 | |
| 2/21/2019 | | | | | 52.3 |
| 4/16/2019 | 54 | 4.43 | 57.1 | | |
| 4/17/2019 | | | | | |
| 4/23/2019 | | | | | |
| 9/23/2019 | 56.1 | | 60 | | |
| 9/24/2019 | | 7.24 | | 29.7 | |
| 9/25/2019 | | | | | 33.4 |
| 3/16/2020 | | | | | |
| 3/17/2020 | 57.2 | | 59.3 | | |
| 3/18/2020 | | 4.51 | | | |
| 3/24/2020 | | | | | 48.9 |
| 3/25/2020 | | | | 31.1 | |
| 5/12/2020 | | | | | |
| 5/13/2020 | | | | | |
| 9/16/2020 | | | 55.9 | | |
| 9/17/2020 | 61.5 | | | | |
| 9/21/2020 | | 5.19 | | | |
| 9/22/2020 | | | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|-----------|-------------|-----------------|-------------|------------------|--------------|
| 9/23/2020 | | | | 29.3 | 44.8 |
| 2/1/2021 | | | | | 48.9 |
| 2/2/2021 | | 4.35 | | 31.8 | |
| 2/3/2021 | 56.9 | | 50.7 | | |
| 2/8/2021 | | | | | |
| 2/9/2021 | | | | | |
| 2/10/2021 | | | | | |
| 7/27/2021 | 55.5 | | 52.6 | | |
| 8/2/2021 | | | | 33 | |
| 8/3/2021 | | | | | |
| 8/4/2021 | | | | | |
| 8/9/2021 | | | | | 35.7 |
| 8/10/2021 | | 4.47 | | | |
| 2/8/2022 | | | | | |
| 2/14/2022 | 55.7 | | 60.1 | 30.1 | |
| 2/15/2022 | | | | | |
| 2/16/2022 | | 4.42 | | | |
| 2/22/2022 | | | | | |
| 2/23/2022 | | | | | 46.3 |
| 2/28/2022 | | | | | |
| 7/19/2022 | | | | | |
| 7/20/2022 | | | | | 47.5 |
| 7/25/2022 | 57.900002 | | | | |
| 7/26/2022 | | | 51.799999 | | |
| 8/2/2022 | | 5.28 | | | |
| 8/3/2022 | | | | | |
| 8/8/2022 | | | | | |
| 8/9/2022 | | | | 31.4 | |
| 8/10/2022 | | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|------------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 8/1/2016 | 6.67 | 6.47 | 2.6 | 15.6 | | | | | |
| 8/2/2016 | | | | | 28.1 | 6.15 | 3.7 | 2.91 | |
| 8/3/2016 | | | | | | | | | 14.5 |
| 9/19/2016 | | 7.78 | 2.51 | | | 5.98 | | | |
| 9/20/2016 | | | | 8.6 | | | | 2.94 | 12.9 |
| 9/21/2016 | 6.54 | | | | 26.8 | | 3.74 | | |
| 10/24/2016 | 8.77 | 7.29 | | | | 5.93 | 3.75 | | |
| 10/25/2016 | | | 2.53 | 7.96 | 26 | | | 2.94 | 12.2 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | | 4.06 | | |
| 12/13/2016 | 6.16 | 12.2 | 2.53 | | | 5.7 | | 2.93 | 10.4 |
| 12/14/2016 | | | | 6.94 | 25.3 | | | | |
| 2/6/2017 | | 7.68 | | | | | 3.92 | | |
| 2/7/2017 | 7.57 | | | | | | | | |
| 2/8/2017 | | | 2.5 | 4.96 | 23.8 | 8.44 | | 2.85 | 8.77 |
| 3/27/2017 | | 9 | | | | | | | |
| 3/28/2017 | 5.9 | | | 5.2 | 28 | | 4.3 | | |
| 3/29/2017 | | | 2.9 | | | | | 3.4 | 10 |
| 3/30/2017 | | | | | | 11 | | | |
| 4/24/2017 | | 10 | | | | | 4.6 | | |
| 4/26/2017 | 6.5 | | 3.2 | 6 | 27 | 10 | | 3.7 | 9.8 |
| 6/5/2017 | | 10 | | | | | | | |
| 6/6/2017 | 5.5 | | 2.6 | 4.9 | 28 | 9.6 | | | |
| 6/7/2017 | | | | | | | 4.3 | 3.3 | 8 |
| 8/21/2017 | | | | | | 12 | 4.7 | | |
| 8/22/2017 | 6.5 | 12 | 2.9 | 5.3 | | | | 3.4 | 6.5 |
| 8/23/2017 | | | | | 29 | | | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 13 | | 3.8 | 27 | | 4.3 | 3.2 | 4.4 |
| 5/16/2018 | 6.6 | | 3 | | | 12 | | | |
| 10/15/2018 | | 10 | | 6.6 | | | 5.1 | | |
| 10/16/2018 | 6.2 | | | | 31 | 20 | | | 3.1 |
| 10/17/2018 | | | 2.2 | | | | | 2.3 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 3.23 | 3.22 |
| 4/17/2019 | 7.27 | 12.7 | 2.82 | 5.2 | 32.3 | 9.5 | | | |
| 4/23/2019 | | | | | | | 5.16 | | |
| 9/23/2019 | | 16.2 | | | | | | | |
| 9/24/2019 | 5.83 | | 2.9 | 5.96 | 36 | | 5.76 | | |
| 9/25/2019 | | | | | | 12 | | | 6.68 |
| 3/16/2020 | | 9.95 | | | | | | | |
| 3/17/2020 | | | | | | | 6.65 | | |
| 3/18/2020 | | | | 8 | 49.5 | | | | 4.22 |
| 3/24/2020 | 6.29 | | 2.88 | | | | | | |
| 3/25/2020 | | | | | | 9.7 | | | |
| 5/12/2020 | | 9.16 | | | | | | | |
| 5/13/2020 | | | | | | 8.25 | | | |
| 9/16/2020 | | | | | | | 6.17 | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 13.8 | | | | | | | |
| 9/22/2020 | 6.6 | | 2.94 | | | 6.33 | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|-----------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 9/23/2020 | | | | 6 | 56.9 | | | | 3.15 |
| 2/1/2021 | | | | | | 8.42 | | | 3.32 |
| 2/2/2021 | | 10.2 | | | | | 6.76 | | |
| 2/3/2021 | | | | | | | | | |
| 2/8/2021 | 6 | | | | 39.8 | | | | |
| 2/9/2021 | | | | 6.12 | | | | | |
| 2/10/2021 | | | 3.19 | | | | | | |
| 7/27/2021 | | | | | | | | | |
| 8/2/2021 | | | | | | | | | |
| 8/3/2021 | | 5.88 | | 6.22 | | | | | |
| 8/4/2021 | | | | | 54.8 | 7.25 | | | |
| 8/9/2021 | | | 3.08 | | | | 7.03 | | 2.75 |
| 8/10/2021 | 4.83 | | | | | | | | |
| 2/8/2022 | | | | | 41.4 | | 7.475 (D) | | |
| 2/14/2022 | | 7.15 | | | | | | | |
| 2/15/2022 | | | 3.58 | | | | | | |
| 2/16/2022 | | | | 5.86 | | | | | |
| 2/22/2022 | 4.59 | | | | | 6.05 | | | |
| 2/23/2022 | | | | | | | | | |
| 2/28/2022 | | | | | | | | | 3.34 |
| 7/19/2022 | | | | | | 4.42 | | | 2.99 |
| 7/20/2022 | | | | | | | | | |
| 7/25/2022 | | | | | | | 7.9725 (D) | | |
| 7/26/2022 | | | | | | | | | |
| 8/2/2022 | | | 3.65 | 4.36 | | | | | |
| 8/3/2022 | 5.35 | | | | | | | | |
| 8/8/2022 | | 6.21 | | | | | | | |
| 8/9/2022 | | | | | | | | | |
| 8/10/2022 | | | | | 44 | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|------------|-------------|-----------------|-------------|------------------|--------------|
| 8/1/2016 | | | | | |
| 8/2/2016 | | | | | |
| 8/3/2016 | 5.2 | 3.21 | 21.9 | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 5.31 | | 20.9 | | |
| 9/21/2016 | | 2.95 | | | |
| 10/24/2016 | 5.4 | | | | |
| 10/25/2016 | | 3.03 | | | |
| 10/26/2016 | | | 20.7 | | |
| 12/12/2016 | 5.46 | | 21.1 | | |
| 12/13/2016 | | 3.21 | | | |
| 12/14/2016 | | | | | |
| 2/6/2017 | 5.28 | 3 | 23.3 | | |
| 2/7/2017 | | | | | |
| 2/8/2017 | | | | | |
| 3/27/2017 | 6.4 | | 25 | | |
| 3/28/2017 | | 3.3 | | | |
| 3/29/2017 | | | | | |
| 3/30/2017 | | | | | |
| 4/24/2017 | 6.5 | 3.8 | 24 | | |
| 4/26/2017 | | | | | |
| 6/5/2017 | | | | | |
| 6/6/2017 | 4.7 | | 22 | | |
| 6/7/2017 | | 3.5 | | | |
| 8/21/2017 | 6.1 | 3.6 | 21 | | |
| 8/22/2017 | | | | | |
| 8/23/2017 | | | | | |
| 5/14/2018 | 6 | | 20 | | |
| 5/15/2018 | | 3.3 | | | |
| 5/16/2018 | | | | | |
| 10/15/2018 | 7 | | 20 | | |
| 10/16/2018 | | 3.3 | | | |
| 10/17/2018 | | | | | |
| 2/20/2019 | | | | 3.56 | |
| 2/21/2019 | | | | | 3.77 |
| 4/16/2019 | 8.36 | 3.69 | 23.1 | | |
| 4/17/2019 | | | | | |
| 4/23/2019 | | | | | |
| 9/23/2019 | 8.72 | | 23.4 | | |
| 9/24/2019 | | 3.21 | | 3.69 | |
| 9/25/2019 | | | | | 3.84 |
| 3/16/2020 | | | | | |
| 3/17/2020 | 10.1 | | 17.4 | | |
| 3/18/2020 | | 4.35 | | | |
| 3/24/2020 | | | | | 4.46 |
| 3/25/2020 | | | | 3.72 | |
| 5/12/2020 | | | | | |
| 5/13/2020 | | | | | |
| 9/16/2020 | | | 14.6 | | |
| 9/17/2020 | 10.5 | | | | |
| 9/21/2020 | | 3.22 | | | |
| 9/22/2020 | | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|-----------|-------------|-----------------|-------------|------------------|--------------|
| 9/23/2020 | | | | 3.74 | 4.63 |
| 2/1/2021 | | | | | 3.86 |
| 2/2/2021 | | 3.85 | | 3.49 | |
| 2/3/2021 | 12.2 | | 14.9 | | |
| 2/8/2021 | | | | | |
| 2/9/2021 | | | | | |
| 2/10/2021 | | | | | |
| 7/27/2021 | 11.1 | | 17 | | |
| 8/2/2021 | | | | 3.12 | |
| 8/3/2021 | | | | | |
| 8/4/2021 | | | | | |
| 8/9/2021 | | | | | 4.44 |
| 8/10/2021 | | 4.04 | | | |
| 2/8/2022 | | | | | |
| 2/14/2022 | 11.7 | | 20.6 | 3.26 | |
| 2/15/2022 | | | | | |
| 2/16/2022 | | 4.42 | | | |
| 2/22/2022 | | | | | |
| 2/23/2022 | | | | | 3.83 |
| 2/28/2022 | | | | | |
| 7/19/2022 | | | | | |
| 7/20/2022 | | | | | 3.85 |
| 7/25/2022 | 9.533 (D) | | | | |
| 7/26/2022 | | | 22.9 | | |
| 8/2/2022 | | 4.35 | | | |
| 8/3/2022 | | | | | |
| 8/8/2022 | | | | | |
| 8/9/2022 | | | | 3.09 | |
| 8/10/2022 | | | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|------------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 8/1/2016 | 0.385 | 0.214 (J) | 0.117 (J) | 1.16 | | | | | |
| 8/2/2016 | | | | | 0.282 (J) | 1.76 | 0.098 (J) | 0.161 (J) | |
| 8/3/2016 | | | | | | | | | 0.656 |
| 9/19/2016 | | 0.151 (J) | 0.078 (J) | | | 1.55 | | | |
| 9/20/2016 | | | | 0.7 | | | | 0.122 (J) | 0.691 |
| 9/21/2016 | 0.303 | | | | 0.231 (J) | | 0.061 (J) | | |
| 10/24/2016 | 0.24 (J) | 0.086 (J) | | | | 1.29 | <0.3 | | |
| 10/25/2016 | | | 0.018 (J) | 0.544 | 0.137 (J) | | | 0.058 (J) | 0.588 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | | 0.01 (J) | | |
| 12/13/2016 | 0.188 (J) | 0.14 (J) | 0.035 (J) | | | 1.19 | | 0.072 (J) | 0.545 |
| 12/14/2016 | | | | 0.51 | 0.131 (J) | | | | |
| 2/6/2017 | | 0.2 | | | | | 0.07 (J) | | |
| 2/7/2017 | 0.38 | | | | | | | | |
| 2/8/2017 | | | 0.1 | 0.56 | 0.25 | 1.6 | | 0.16 | 0.79 |
| 3/27/2017 | | 0.21 | | | | | | | |
| 3/28/2017 | 0.32 | | | 0.59 | 0.27 | | 0.07 (J) | | |
| 3/29/2017 | | | 0.08 (J) | | | | | 0.14 | 0.51 |
| 3/30/2017 | | | | | | 1.5 | | | |
| 4/24/2017 | | 0.2 | | | | | 0.08 (J) | | |
| 4/26/2017 | 0.31 | | 0.11 | 0.72 | 0.24 | 1.4 | | 0.16 | 0.49 |
| 6/5/2017 | | 0.2 | | | | | | | |
| 6/6/2017 | 0.31 | | 0.11 | 0.65 | 0.25 | 1.3 | | | |
| 6/7/2017 | | | | | | | 0.09 (J) | 0.15 | 0.43 |
| 8/21/2017 | | | | | | 1.4 | 0.09 (J) | | |
| 8/22/2017 | 0.35 | 0.24 | 0.11 | 0.9 | | | | 0.18 | 0.41 |
| 8/23/2017 | | | | | 0.3 | | | | |
| 2/19/2018 | | 0.34 | | | | | 0.09 (J) | | |
| 2/20/2018 | | | | 0.6 | 0.23 | | | 0.17 | 0.27 |
| 2/21/2018 | 0.39 | | 0.11 | | | 1.1 | | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 0.27 | | 0.57 | 0.24 | | 0.09 (J) | 0.17 | 0.23 |
| 5/16/2018 | 0.36 | | 0.12 | | | 1.1 | | | |
| 10/15/2018 | | 0.23 | | 0.77 | | | 0.11 | | |
| 10/16/2018 | 0.37 | | | | 0.25 | 1 | | | 0.23 |
| 10/17/2018 | | | 0.13 | | | | | 0.19 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 0.197 | 0.188 |
| 4/17/2019 | 0.27 | 0.354 | 0.171 | 0.463 | 0.272 | 0.868 | | | |
| 4/23/2019 | | | | | | | 0.111 | | |
| 9/23/2019 | | 0.351 | | | | | | | |
| 9/24/2019 | 0.307 | | 0.124 | 0.628 | 0.209 | | 0.106 | | |
| 9/25/2019 | | | | | | 0.86 | | | 0.168 |
| 3/16/2020 | | 0.261 | | | | | | | |
| 3/17/2020 | | | | | | | 0.107 | | |
| 3/18/2020 | | | | 0.647 | 0.234 | | | | 0.122 |
| 3/24/2020 | 0.327 | | 0.109 | | | | | | |
| 3/25/2020 | | | | | | 0.855 | | | |
| 5/12/2020 | | 0.263 | | | | | | | |
| 5/13/2020 | | | | | | 0.777 | | | |
| 9/16/2020 | | | | | | | 0.126 | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|-----------|-------------|-------------|--------------|-------------|-------------|------------|-------------|------------------|-------------|
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 0.371 | | | | | | | |
| 9/22/2020 | 0.339 | | 0.123 | | | 0.921 | | | |
| 9/23/2020 | | | | 0.452 | 0.208 | | | | 0.12 |
| 2/1/2021 | | | | | | 0.865 | | | 0.126 |
| 2/2/2021 | | 0.276 | | | | | 0.124 | | |
| 2/3/2021 | | | | | | | | | |
| 2/8/2021 | 0.319 | | | | 0.203 | | | | |
| 2/9/2021 | | | | 0.591 | | | | | |
| 2/10/2021 | | | 0.103 | | | | | | |
| 7/27/2021 | | | | | | | | | |
| 8/2/2021 | | | | | | | | | |
| 8/3/2021 | | 0.3 | | 0.615 | | | | | |
| 8/4/2021 | | | | | 0.24 | 0.932 | | | |
| 8/9/2021 | | | 0.131 | | | | 0.11 | | 0.139 |
| 8/10/2021 | 0.283 | | | | | | | | |
| 2/8/2022 | | | | | 0.175 | | 0.0872 (JD) | | |
| 2/14/2022 | | 0.206 | | | | | | | |
| 2/15/2022 | | | 0.114 | | | | | | |
| 2/16/2022 | | | | 0.349 | | | | | |
| 2/22/2022 | 0.259 | | | | | 0.819 | | | |
| 2/23/2022 | | | | | | | | | |
| 2/28/2022 | | | | | | | | | 0.12 |
| 7/19/2022 | | | | | | 0.752 | | | 0.0983 (J) |
| 7/20/2022 | | | | | | | | | |
| 7/25/2022 | | | | | | | 0.0896 (JD) | | |
| 7/26/2022 | | | | | | | | | |
| 8/2/2022 | | | 0.112 (J) | 0.373 | | | | | |
| 8/3/2022 | 0.231 | | | | | | | | |
| 8/8/2022 | | 0.257 | | | | | | | |
| 8/9/2022 | | | | | | | | | |
| 8/10/2022 | | | | | 0.186 | | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|------------|-------------|-----------------|-------------|------------------|--------------|
| 8/1/2016 | | | | | |
| 8/2/2016 | | | | | |
| 8/3/2016 | 0.127 (J) | 0.125 (J) | 0.099 (J) | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 0.087 (J) | | 0.074 (J) | | |
| 9/21/2016 | | 0.098 (J) | | | |
| 10/24/2016 | 0.019 (J) | | | | |
| 10/25/2016 | | 0.025 (J) | | | |
| 10/26/2016 | | | 0.032 (J) | | |
| 12/12/2016 | 0.043 (J) | | 0.034 (J) | | |
| 12/13/2016 | | 0.045 (J) | | | |
| 12/14/2016 | | | | | |
| 2/6/2017 | 0.11 | 0.1 | 0.06 (J) | | |
| 2/7/2017 | | | | | |
| 2/8/2017 | | | | | |
| 3/27/2017 | 0.12 | | 0.07 (J) | | |
| 3/28/2017 | | 0.08 (J) | | | |
| 3/29/2017 | | | | | |
| 3/30/2017 | | | | | |
| 4/24/2017 | 0.11 | 0.09 (J) | 0.08 (J) | | |
| 4/26/2017 | | | | | |
| 6/5/2017 | | | | | |
| 6/6/2017 | 0.12 | | 0.09 (J) | | |
| 6/7/2017 | | 0.08 (J) | | | |
| 8/21/2017 | 0.15 | 0.08 (J) | 0.1 | | |
| 8/22/2017 | | | | | |
| 8/23/2017 | | | | | |
| 2/19/2018 | 0.13 | 0.08 (J) | 0.1 | | |
| 2/20/2018 | | | | | |
| 2/21/2018 | | | | | |
| 5/14/2018 | 0.13 | | 0.13 | | |
| 5/15/2018 | | 0.1 | | | |
| 5/16/2018 | | | | | |
| 10/15/2018 | 0.16 | | 0.14 | | |
| 10/16/2018 | | 0.09 (J) | | | |
| 10/17/2018 | | | | | |
| 2/20/2019 | | | | 0.239 | |
| 2/21/2019 | | | | | 0.205 |
| 4/16/2019 | 0.156 | 0.143 | 0.147 | | |
| 4/17/2019 | | | | | |
| 4/23/2019 | | | | | |
| 9/23/2019 | 0.132 | | 0.142 | | |
| 9/24/2019 | | 0.128 | | 0.245 | |
| 9/25/2019 | | | | | 0.185 |
| 3/16/2020 | | | | | |
| 3/17/2020 | 0.132 | | 0.231 | | |
| 3/18/2020 | | 0.108 | | | |
| 3/24/2020 | | | | | 0.155 |
| 3/25/2020 | | | | 0.243 | |
| 5/12/2020 | | | | | |
| 5/13/2020 | | | | | |
| 9/16/2020 | | | 0.308 | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|-----------|-------------|-----------------|-------------|------------------|--------------|
| 9/17/2020 | 0.133 | | | | |
| 9/21/2020 | | 0.125 | | | |
| 9/22/2020 | | | | | |
| 9/23/2020 | | | | 0.278 | 0.176 |
| 2/1/2021 | | | | | 0.169 |
| 2/2/2021 | | 0.114 | | 0.244 | |
| 2/3/2021 | 0.135 | | 0.195 | | |
| 2/8/2021 | | | | | |
| 2/9/2021 | | | | | |
| 2/10/2021 | | | | | |
| 7/27/2021 | 0.127 | | 0.2 | | |
| 8/2/2021 | | | | 0.276 | |
| 8/3/2021 | | | | | |
| 8/4/2021 | | | | | |
| 8/9/2021 | | | | | 0.187 |
| 8/10/2021 | | 0.0924 (J) | | | |
| 2/8/2022 | | | | | |
| 2/14/2022 | 0.108 | | 0.164 | 0.237 | |
| 2/15/2022 | | | | | |
| 2/16/2022 | | 0.0616 (J) | | | |
| 2/22/2022 | | | | | |
| 2/23/2022 | | | | | 0.153 |
| 2/28/2022 | | | | | |
| 7/19/2022 | | | | | |
| 7/20/2022 | | | | | 0.18 |
| 7/25/2022 | 0.0978 (JD) | | | | |
| 7/26/2022 | | | 0.164 | | |
| 8/2/2022 | | 0.0815 (J) | | | |
| 8/3/2022 | | | | | |
| 8/8/2022 | | | | | |
| 8/9/2022 | | | | 0.245 | |
| 8/10/2022 | | | | | |

Prediction Limit

Constituent: pH (SU) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|------------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 8/1/2016 | 8.05 | 8.39 | 7.53 | 11.74 | | | | | |
| 8/2/2016 | | | | | 10.26 | 9.18 | 7.72 | 6.8 | |
| 8/3/2016 | | | | | | | | | 7.36 |
| 9/19/2016 | | 8.42 | 7.5 | | | 9.18 | | | |
| 9/20/2016 | | | | 10.33 | | | | 6.8 | 7.28 |
| 9/21/2016 | 8.14 | | | | 10.45 | | 7.6 | | |
| 10/24/2016 | 8.55 | 8.42 | | | | 9.14 | 7.68 | | |
| 10/25/2016 | | | 7.44 | 10.24 | 10.42 | | | 6.85 | 7.23 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | | 7.72 | | |
| 12/13/2016 | 8.08 | 8.43 | 7.45 | | | 9.2 | | 6.8 | 7.27 |
| 12/14/2016 | | | | 10.09 | 10.12 | | | | |
| 2/6/2017 | | 8.38 | | | | | 7.64 | | |
| 2/7/2017 | 8.61 | | | | | | | | |
| 2/8/2017 | | | 7.41 | 9.75 | 10.28 | 9.17 | | 6.76 | 7.25 |
| 3/27/2017 | | 8.43 | | | | | | | |
| 3/28/2017 | 7.94 | | | 9.9 | 10.67 | | 7.58 | | |
| 3/29/2017 | | | 7.44 | | | | | 6.76 | 7.34 |
| 3/30/2017 | | | | | | 9.08 | | | |
| 4/24/2017 | | 8.39 | | | | | 7.68 | | |
| 4/26/2017 | 8.26 | | 7.47 | 10.08 | 10.42 | 9.22 | | 6.71 | 7.19 |
| 6/5/2017 | | 8.42 | | | | | | | |
| 6/6/2017 | 8.23 | | 7.37 | 10.2 | 10.51 | 9.22 | | | |
| 6/7/2017 | | | | | | | 7.56 | 6.71 | 7.24 |
| 8/21/2017 | | | | | | 9.12 | 7.61 | | |
| 8/22/2017 | 8.1 | 8.4 | 7.48 | 10.57 | | | | 6.84 | 7.31 |
| 8/23/2017 | | | | | 11.91 | | | | |
| 2/19/2018 | | 8.33 | | | | | 7.65 | | |
| 2/20/2018 | | | | 10.63 | 11.57 | | | 6.77 | 7.69 |
| 2/21/2018 | 8.48 | | 7.44 | | | 9.17 | | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 8.3 | | 10.71 | 11.26 | | 7.69 | 6.8 | 7.69 |
| 5/16/2018 | 8.12 | | 7.45 | | | 9.28 | | | |
| 10/15/2018 | | 8.37 | | 11.51 | | | 7.62 | | |
| 10/16/2018 | 8.22 | | | | 11.34 | 9.35 | | | 7.51 |
| 10/17/2018 | | | 7.41 | | | | | 6.67 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 6.64 | 7.41 |
| 4/17/2019 | 8.06 | 8.36 | 7.33 | 10.76 | 11.71 | 9.26 | | | |
| 4/23/2019 | | | | | | | 7.83 | | |
| 9/23/2019 | | 8.37 | | | | | | | |
| 9/24/2019 | 7.8 | | 7.43 | 11.7 | 11.24 | | 7.38 | | |
| 9/25/2019 | | | | | | 9.31 | | | 7.38 |
| 3/16/2020 | | 8.45 | | | | | | | |
| 3/17/2020 | | | | | | | 7.72 | | |
| 3/18/2020 | | | | 11.47 | 11.37 | | | | 7.56 |
| 3/24/2020 | 7.93 | | 7.46 | | | | | | |
| 3/25/2020 | | | | | | 9.29 | | | |
| 5/12/2020 | | 8.42 | | | | | | | |
| 5/13/2020 | | | | | | 9.43 | | | |
| 9/16/2020 | | | | | | | 7.74 | | |

Prediction Limit

Constituent: pH (SU) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|-----------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 8.22 | | | | | | | |
| 9/22/2020 | 8.17 | | 7.52 | | | 9.41 | | | |
| 9/23/2020 | | | | 11.89 | 10.71 | | | | 8.3 |
| 2/1/2021 | | | | | | 9.31 | | | 7.55 |
| 2/2/2021 | | 8.43 | | | | | 7.77 | | |
| 2/3/2021 | | | | | | | | | |
| 2/8/2021 | 7.89 | | | | 10.69 | | | | |
| 2/9/2021 | | | | 11.88 | | | | | |
| 2/10/2021 | | | 7.73 | | | | | | |
| 7/27/2021 | | | | | | | | | |
| 8/2/2021 | | | | | | | | | |
| 8/3/2021 | | 8.6 | | 11.56 | | | | | |
| 8/4/2021 | | | | | 10.95 | 9.08 | | | |
| 8/9/2021 | | | 7.53 | | | | 7.49 | | 7.98 |
| 8/10/2021 | 7.72 | | | | | | | | |
| 2/8/2022 | | | | | 10.26 | | 7.71 | | |
| 2/14/2022 | | 8.32 | | | | | | | |
| 2/15/2022 | | | 7.48 | | | | | | |
| 2/16/2022 | | | | 11.57 | | | | | |
| 2/22/2022 | 7.71 | | | | | 9.42 | | | |
| 2/23/2022 | | | | | | | | | |
| 2/28/2022 | | | | | | | | | 8.12 |
| 7/19/2022 | | | | | | 9.6 | | | 8.79 |
| 7/20/2022 | | | | | | | | | |
| 7/25/2022 | | | | | | | 7.64 (D) | | |
| 7/26/2022 | | | | | | | | | |
| 8/2/2022 | | | 7.49 | 11.84 | | | | | |
| 8/3/2022 | 7.87 | | | | | | | | |
| 8/8/2022 | | 8.38 | | | | | | | |
| 8/9/2022 | | | | | | | | | |
| 8/10/2022 | | | | | 9.26 | | | | |

Prediction Limit

Constituent: pH (SU) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|------------|-------------|-----------------|-------------|------------------|--------------|
| 8/1/2016 | | | | | |
| 8/2/2016 | | | | | |
| 8/3/2016 | 7.27 | 5.84 | 6.81 | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 7.27 | | 6.72 | | |
| 9/21/2016 | | 5.99 | | | |
| 10/24/2016 | 7.25 | | | | |
| 10/25/2016 | | 5.94 | | | |
| 10/26/2016 | | | 6.68 | | |
| 12/12/2016 | 7.26 | | 6.76 | | |
| 12/13/2016 | | 5.84 | | | |
| 12/14/2016 | | | | | |
| 2/6/2017 | 7.24 | 5.9 | 6.75 | | |
| 2/7/2017 | | | | | |
| 2/8/2017 | | | | | |
| 3/27/2017 | 7.29 | | 6.67 | | |
| 3/28/2017 | | 5.67 | | | |
| 3/29/2017 | | | | | |
| 3/30/2017 | | | | | |
| 4/24/2017 | 7.46 | 5.79 | 6.81 | | |
| 4/26/2017 | | | | | |
| 6/5/2017 | | | | | |
| 6/6/2017 | 7.29 | | 6.8 | | |
| 6/7/2017 | | 5.71 | | | |
| 8/21/2017 | 7.21 | 5.7 | 6.78 | | |
| 8/22/2017 | | | | | |
| 8/23/2017 | | | | | |
| 2/19/2018 | 7.36 | 5.78 | 6.85 | | |
| 2/20/2018 | | | | | |
| 2/21/2018 | | | | | |
| 5/14/2018 | 7.36 | | 6.82 | | |
| 5/15/2018 | | 5.84 | | | |
| 5/16/2018 | | | | | |
| 10/15/2018 | 7.33 | | 6.78 | | |
| 10/16/2018 | | 5.75 | | | |
| 10/17/2018 | | | | | |
| 2/20/2019 | | | | 7.76 | |
| 2/21/2019 | | | | | 7.46 |
| 4/16/2019 | 7.26 | 5.76 | 6.82 | | |
| 4/17/2019 | | | | | |
| 4/23/2019 | | | | | |
| 9/23/2019 | 7.23 | | 6.51 | | |
| 9/24/2019 | | 5.27 | | 7.65 | |
| 9/25/2019 | | | | | 9.29 |
| 3/16/2020 | | | | | |
| 3/17/2020 | 7.39 | | 6.92 | | |
| 3/18/2020 | | 5.81 | | | |
| 3/24/2020 | | | | | 7.8 |
| 3/25/2020 | | | | 7.63 | |
| 5/12/2020 | | | | | |
| 5/13/2020 | | | | | |
| 9/16/2020 | | | 6.93 | | |

Prediction Limit

Constituent: pH (SU) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|-----------|-------------|-----------------|-------------|------------------|--------------|
| 9/17/2020 | 7.41 | | | | |
| 9/21/2020 | | 5.75 | | | |
| 9/22/2020 | | | | | |
| 9/23/2020 | | | | 7.53 | 8.84 |
| 2/1/2021 | | | | | 7.3 |
| 2/2/2021 | | 5.69 | | 7.58 | |
| 2/3/2021 | 7.55 | | 7.05 | | |
| 2/8/2021 | | | | | |
| 2/9/2021 | | | | | |
| 2/10/2021 | | | | | |
| 7/27/2021 | 6.79 | | 6.67 | | |
| 8/2/2021 | | | | 7.65 | |
| 8/3/2021 | | | | | |
| 8/4/2021 | | | | | |
| 8/9/2021 | | | | | 8.77 |
| 8/10/2021 | | 5.02 | | | |
| 2/8/2022 | | | | | |
| 2/14/2022 | 7.43 | | 6.99 | 7.43 | |
| 2/15/2022 | | | | | |
| 2/16/2022 | | 5.8 | | | |
| 2/22/2022 | | | | | |
| 2/23/2022 | | | | | 7.73 |
| 2/28/2022 | | | | | |
| 7/19/2022 | | | | | |
| 7/20/2022 | | | | | 8.52 |
| 7/25/2022 | 6.95 (D) | | | | |
| 7/26/2022 | | | 6.97 | | |
| 8/2/2022 | | 5.78 | | | |
| 8/3/2022 | | | | | |
| 8/8/2022 | | | | | |
| 8/9/2022 | | | | 7.55 | |
| 8/10/2022 | | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|------------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 8/1/2016 | 9.02 | 9.56 | 13.4 | 102 | | | | | |
| 8/2/2016 | | | | | 9.14 | 2.87 | 154 | 12 | |
| 8/3/2016 | | | | | | | | | 19.2 |
| 9/19/2016 | | 12.7 | 12.9 | | | 1.22 | | | |
| 9/20/2016 | | | | 53.3 | | | | 11.2 | 1.42 |
| 9/21/2016 | 8.38 | | | | 8.71 | | 146 | | |
| 10/24/2016 | 18.5 | 8.58 | | | | <1 | 131 | | |
| 10/25/2016 | | | 11.6 | 49.8 | 8.54 | | | 10.1 | <1 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | | 141 | | |
| 12/13/2016 | 7.4 | 31 | 12.7 | | | <1 | | 11.4 | 3.21 |
| 12/14/2016 | | | | 40.9 | 11.5 | | | | |
| 2/6/2017 | | 14.7 | | | | | 135 | | |
| 2/7/2017 | 8.16 | | | | | | | | |
| 2/8/2017 | | | 12.2 | 25 | 17 | 19.4 | | 10.9 | 3.3 |
| 3/27/2017 | | 14 | | | | | | | |
| 3/28/2017 | 6.4 | | | 27 | 25 | | 140 | | |
| 3/29/2017 | | | 12 | | | | | 11 | 3.8 (J) |
| 3/30/2017 | | | | | | 31 | | | |
| 4/24/2017 | | 22 | | | | | 140 | | |
| 4/26/2017 | 4.6 (J) | | 13 | 29 | 28 | 29 | | 11 | 1.4 (J) |
| 6/5/2017 | | 30 | | | | | | | |
| 6/6/2017 | 5.2 | | 12 | 23 | 33 | 37 | | | |
| 6/7/2017 | | | | | | | 150 | 11 | 1.7 (J) |
| 8/21/2017 | | | | | | 55 | 140 | | |
| 8/22/2017 | 5.3 | 42 | 12 | 22 | | | | 11 | 4.2 (J) |
| 8/23/2017 | | | | | 43 | | | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 54 | | 13 | 110 | | 120 | 11 | 14 |
| 5/16/2018 | 6 | | 13 | | | 34 | | | |
| 10/15/2018 | | 34 | | 14 | | | 130 | | |
| 10/16/2018 | 5.6 | | | | 160 | 90 | | | 13 |
| 10/17/2018 | | | 13 | | | | | 12 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 12.1 | 13.3 |
| 4/17/2019 | 14.3 | 76.6 | 14.1 | 9.02 | 215 | 48.6 | | | |
| 4/23/2019 | | | | | | | 156 | | |
| 9/23/2019 | | 124 | | | | | | | |
| 9/24/2019 | 13.8 | | 14.1 | 12.4 | 224 | | 145 | | |
| 9/25/2019 | | | | | | 47.7 | | | 25.5 |
| 3/16/2020 | | 48.6 | | | | | | | |
| 3/17/2020 | | | | | | | 149 | | |
| 3/18/2020 | | | | 15.9 | 228 | | | | 20.8 |
| 3/24/2020 | 15.2 | | 14.1 | | | | | | |
| 3/25/2020 | | | | | | 38.5 | | | |
| 5/12/2020 | | 44.4 | | | | | | | |
| 5/13/2020 | | | | | | 33.6 | | | |
| 9/16/2020 | | | | | | | 131 | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 104 | | | | | | | |
| 9/22/2020 | 16.9 | | 13.6 | | | 21.5 | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|-----------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 9/23/2020 | | | | 13.2 | 248 | | | | 19.1 |
| 2/1/2021 | | | | | | 21.3 | | | 18.7 |
| 2/2/2021 | | 55.1 | | | | | 130 | | |
| 2/3/2021 | | | | | | | | | |
| 2/8/2021 | 16.2 | | | | 232 | | | | |
| 2/9/2021 | | | | 10.6 | | | | | |
| 2/10/2021 | | | 15.8 | | | | | | |
| 7/27/2021 | | | | | | | | | |
| 8/2/2021 | | | | | | | | | |
| 8/3/2021 | | 7.58 | | 9.77 | | | | | |
| 8/4/2021 | | | | | 231 | 16.8 | | | |
| 8/9/2021 | | | 14.4 | | | | 133 | | 17.3 |
| 8/10/2021 | 15.2 | | | | | | | | |
| 2/8/2022 | | | | | 241 | | 137 (D) | | |
| 2/14/2022 | | 14.4 | | | | | | | |
| 2/15/2022 | | | 14.7 | | | | | | |
| 2/16/2022 | | | | 7.37 | | | | | |
| 2/22/2022 | 13.7 | | | | | 17.1 | | | |
| 2/23/2022 | | | | | | | | | |
| 2/28/2022 | | | | | | | | | 17.9 |
| 7/19/2022 | | | | | | 19.4 | | | 18.5 |
| 7/20/2022 | | | | | | | | | |
| 7/25/2022 | | | | | | | 137.75 (D) | | |
| 7/26/2022 | | | | | | | | | |
| 8/2/2022 | | | 15.6 | 9.11 | | | | | |
| 8/3/2022 | 17.1 | | | | | | | | |
| 8/8/2022 | | 8.35 | | | | | | | |
| 8/9/2022 | | | | | | | | | |
| 8/10/2022 | | | | | 245 | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|------------|-------------|-----------------|-------------|------------------|--------------|
| 8/1/2016 | | | | | |
| 8/2/2016 | | | | | |
| 8/3/2016 | 52 | 4.2 | 203 | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 56 | | 209 | | |
| 9/21/2016 | | 4.27 | | | |
| 10/24/2016 | 57.5 | | | | |
| 10/25/2016 | | 2.78 | | | |
| 10/26/2016 | | | 224 | | |
| 12/12/2016 | 50 | | 249 | | |
| 12/13/2016 | | 3.18 | | | |
| 12/14/2016 | | | | | |
| 2/6/2017 | 54.9 | 3.74 | 309 | | |
| 2/7/2017 | | | | | |
| 2/8/2017 | | | | | |
| 3/27/2017 | 50 | | 290 | | |
| 3/28/2017 | | 3.4 (J) | | | |
| 3/29/2017 | | | | | |
| 3/30/2017 | | | | | |
| 4/24/2017 | 56 | 2.7 (J) | 300 | | |
| 4/26/2017 | | | | | |
| 6/5/2017 | | | | | |
| 6/6/2017 | 63 | | 310 | | |
| 6/7/2017 | | 2.7 (J) | | | |
| 8/21/2017 | 35 | 3.9 (J) | 260 | | |
| 8/22/2017 | | | | | |
| 8/23/2017 | | | | | |
| 5/14/2018 | 46 | | 210 | | |
| 5/15/2018 | | 2.5 (J) | | | |
| 5/16/2018 | | | | | |
| 10/15/2018 | 37 | | 170 | | |
| 10/16/2018 | | 2.4 (J) | | | |
| 10/17/2018 | | | | | |
| 2/20/2019 | | | | 15.2 | |
| 2/21/2019 | | | | | <1 |
| 4/16/2019 | 46.8 | 4.53 | 195 | | |
| 4/17/2019 | | | | | |
| 4/23/2019 | | | | | |
| 9/23/2019 | 47.9 | | 176 | | |
| 9/24/2019 | | 6.61 | | 11.8 | |
| 9/25/2019 | | | | | 1.61 |
| 3/16/2020 | | | | | |
| 3/17/2020 | 59.5 | | 148 | | |
| 3/18/2020 | | 4.86 | | | |
| 3/24/2020 | | | | | <1 |
| 3/25/2020 | | | | 9.69 | |
| 5/12/2020 | | | | | |
| 5/13/2020 | | | | | |
| 9/16/2020 | | | 115 | | |
| 9/17/2020 | 65.1 | | | | |
| 9/21/2020 | | 4.69 | | | |
| 9/22/2020 | | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|-----------|-------------|-----------------|-------------|------------------|--------------|
| 9/23/2020 | | | | 11.1 | 6.56 |
| 2/1/2021 | | | | | <1 |
| 2/2/2021 | | 4.83 | | 8.81 | |
| 2/3/2021 | 58.9 | | 116 | | |
| 2/8/2021 | | | | | |
| 2/9/2021 | | | | | |
| 2/10/2021 | | | | | |
| 7/27/2021 | 64.4 | | 114 | | |
| 8/2/2021 | | | | 10.2 | |
| 8/3/2021 | | | | | |
| 8/4/2021 | | | | | |
| 8/9/2021 | | | | | 1.85 |
| 8/10/2021 | | 3.77 | | | |
| 2/8/2022 | | | | | |
| 2/14/2022 | 58.3 | | 115 | 9.09 | |
| 2/15/2022 | | | | | |
| 2/16/2022 | | 4.68 | | | |
| 2/22/2022 | | | | | |
| 2/23/2022 | | | | | 0.741 (J) |
| 2/28/2022 | | | | | |
| 7/19/2022 | | | | | |
| 7/20/2022 | | | | | 1.08 (J) |
| 7/25/2022 | 57.6 (D) | | | | |
| 7/26/2022 | | | 106 | | |
| 8/2/2022 | | 4.18 | | | |
| 8/3/2022 | | | | | |
| 8/8/2022 | | | | | |
| 8/9/2022 | | | | 8.13 | |
| 8/10/2022 | | | | | |

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|------------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 8/1/2016 | 245 | 408 | 222 | 640 | | | | | |
| 8/2/2016 | | | | | 348 | 390 | 358 | 221 | |
| 8/3/2016 | | | | | | | | | 546 |
| 9/19/2016 | | 441 | 220 | | | 398 | | | |
| 9/20/2016 | | | | 434 | | | | 221 | 542 |
| 9/21/2016 | 267 | | | | 368 | | 370 | | |
| 10/24/2016 | 275 | 424 | | | | 395 | 370 | | |
| 10/25/2016 | | | 223 | 394 | 348 | | | 226 | 518 |
| 10/26/2016 | | | | | | | | | |
| 12/12/2016 | | | | | | | 353 | | |
| 12/13/2016 | 255 | 466 | 211 | | | 381 | | 211 | 424 |
| 12/14/2016 | | | | 387 | 352 | | | | |
| 2/6/2017 | | 414 | | | | | 338 | | |
| 2/7/2017 | 272 | | | | | | | | |
| 2/8/2017 | | | 206 | 303 | 352 | 376 | | 212 | 379 |
| 3/27/2017 | | 444 | | | | | | | |
| 3/28/2017 | 271 | | | 305 | 370 | | 352 | | |
| 3/29/2017 | | | 215 | | | | | 217 | 334 |
| 3/30/2017 | | | | | | 391 | | | |
| 4/24/2017 | | 446 | | | | | 362 | | |
| 4/26/2017 | 265 | | 212 | 329 | 342 | 384 | | 202 | 332 |
| 6/5/2017 | | 493 | | | | | | | |
| 6/6/2017 | 287 | | 227 | 331 | 367 | 404 | | | |
| 6/7/2017 | | | | | | | 348 | 218 | 308 |
| 8/21/2017 | | | | | | 416 | 362 | | |
| 8/22/2017 | 293 | 500 | 230 | 364 | | | | 224 | 286 |
| 8/23/2017 | | | | | 508 | | | | |
| 5/14/2018 | | | | | | | | | |
| 5/15/2018 | | 528 | | 340 | 438 | | 338 | 209 | 235 |
| 5/16/2018 | 301 | | 216 | | | 365 | | | |
| 10/15/2018 | | 462 | | 448 | | | 333 | | |
| 10/16/2018 | 303 | | | | 520 | 430 | | | 211 |
| 10/17/2018 | | | 191 | | | | | 208 | |
| 2/20/2019 | | | | | | | | | |
| 2/21/2019 | | | | | | | | | |
| 4/16/2019 | | | | | | | | 185 | 193 |
| 4/17/2019 | 296 | 540 | 207 | 354 | 582 | 341 | | | |
| 4/23/2019 | | | | | | | 354 | | |
| 9/23/2019 | | 684 | | | | | | | |
| 9/24/2019 | 302 | | 208 | 536 | 630 | | 344 | | |
| 9/25/2019 | | | | | | 358 | | | 253 |
| 3/16/2020 | | 516 | | | | | | | |
| 3/17/2020 | | | | | | | 334 | | |
| 3/18/2020 | | | | 515 | 661 | | | | 236 |
| 3/24/2020 | 302 | | 205 | | | | | | |
| 3/25/2020 | | | | | | 337 | | | |
| 5/12/2020 | | 493 | | | | | | | |
| 5/13/2020 | | | | | | 328 | | | |
| 9/16/2020 | | | | | | | 351 | | |
| 9/17/2020 | | | | | | | | | |
| 9/21/2020 | | 658 | | | | | | | |
| 9/22/2020 | 300 | | 218 | | | 318 | | | |

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-19 | GS-AP-MW-17 | GS-AP-MW-16D | GS-AP-MW-15 | GS-AP-MW-21 | GS-AP-MW-2 | GS-AP-MW-7 | GS-AP-MW-13 (bg) | GS-AP-MW-12 |
|-----------|-------------|-------------|--------------|-------------|-------------|------------|------------|------------------|-------------|
| 9/23/2020 | | | | 600 | 642 | | | | 216 |
| 2/1/2021 | | | | | | 333 | | | 224 |
| 2/2/2021 | | 548 | | | | | 349 | | |
| 2/3/2021 | | | | | | | | | |
| 2/8/2021 | 324 | | | | 684 | | | | |
| 2/9/2021 | | | | 616 | | | | | |
| 2/10/2021 | | | 224 | | | | | | |
| 7/27/2021 | | | | | | | | | |
| 8/2/2021 | | | | | | | | | |
| 8/3/2021 | | 435 | | 632 | | | | | |
| 8/4/2021 | | | | | 594 | 316 | | | |
| 8/9/2021 | | | 207 | | | | 340 | | 219 |
| 8/10/2021 | 307 | | | | | | | | |
| 2/8/2022 | | | | | 570 | | 325 (D) | | |
| 2/14/2022 | | 448 | | | | | | | |
| 2/15/2022 | | | 214 | | | | | | |
| 2/16/2022 | | | | 426 | | | | | |
| 2/22/2022 | 304 | | | | | 295 | | | |
| 2/23/2022 | | | | | | | | | |
| 2/28/2022 | | | | | | | | | 195 |
| 7/19/2022 | | | | | | 262 | | | 199 |
| 7/20/2022 | | | | | | | | | |
| 7/25/2022 | | | | | | | 308.25 (D) | | |
| 7/26/2022 | | | | | | | | | |
| 8/2/2022 | | | 210 | 592 | | | | | |
| 8/3/2022 | 327 | | | | | | | | |
| 8/8/2022 | | 446 | | | | | | | |
| 8/9/2022 | | | | | | | | | |
| 8/10/2022 | | | | | 592 | | | | |

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|------------|-------------|-----------------|-------------|------------------|--------------|
| 8/1/2016 | | | | | |
| 8/2/2016 | | | | | |
| 8/3/2016 | 302 | 113 | 394 | | |
| 9/19/2016 | | | | | |
| 9/20/2016 | 298 | | 444 | | |
| 9/21/2016 | | 128 | | | |
| 10/24/2016 | 306 | | | | |
| 10/25/2016 | | 121 | | | |
| 10/26/2016 | | | 456 | | |
| 12/12/2016 | 291 | | 491 | | |
| 12/13/2016 | | 101 | | | |
| 12/14/2016 | | | | | |
| 2/6/2017 | 285 | 108 | 580 | | |
| 2/7/2017 | | | | | |
| 2/8/2017 | | | | | |
| 3/27/2017 | 305 | | 554 | | |
| 3/28/2017 | | 91 | | | |
| 3/29/2017 | | | | | |
| 3/30/2017 | | | | | |
| 4/24/2017 | 301 | 89.3 | 566 | | |
| 4/26/2017 | | | | | |
| 6/5/2017 | | | | | |
| 6/6/2017 | 311 | | 580 | | |
| 6/7/2017 | | 84 | | | |
| 8/21/2017 | 289 | 91.3 | 524 | | |
| 8/22/2017 | | | | | |
| 8/23/2017 | | | | | |
| 5/14/2018 | 303 | | 458 | | |
| 5/15/2018 | | 94.7 | | | |
| 5/16/2018 | | | | | |
| 10/15/2018 | 309 | | 404 | | |
| 10/16/2018 | | 76.7 | | | |
| 10/17/2018 | | | | | |
| 2/20/2019 | | | | 346 | |
| 2/21/2019 | | | | | 237 |
| 4/16/2019 | 285 | 92 | 382 | | |
| 4/17/2019 | | | | | |
| 4/23/2019 | | | | | |
| 9/23/2019 | 296 | | 381 | | |
| 9/24/2019 | | 109 | | 365 | |
| 9/25/2019 | | | | | 183 |
| 3/16/2020 | | | | | |
| 3/17/2020 | 303 | | 328 | | |
| 3/18/2020 | | 90.7 | | | |
| 3/24/2020 | | | | | 206 |
| 3/25/2020 | | | | 364 | |
| 5/12/2020 | | | | | |
| 5/13/2020 | | | | | |
| 9/16/2020 | | | 269 | | |
| 9/17/2020 | 314 | | | | |
| 9/21/2020 | | 94 | | | |
| 9/22/2020 | | | | | |

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/4/2022 1:20 PM View: Appendix III
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-6D | GS-AP-MW-8 (bg) | GS-AP-MW-6S | GS-AP-MW-17V ... | GS-AP-MW-12V |
|-----------|-------------|-----------------|-------------|------------------|--------------|
| 9/23/2020 | | | | 368 | 195 |
| 2/1/2021 | | | | | 240 |
| 2/2/2021 | | 98.7 | | 356 | |
| 2/3/2021 | 301 | | 274 | | |
| 2/8/2021 | | | | | |
| 2/9/2021 | | | | | |
| 2/10/2021 | | | | | |
| 7/27/2021 | 262 | | 273 | | |
| 8/2/2021 | | | | 333 | |
| 8/3/2021 | | | | | |
| 8/4/2021 | | | | | |
| 8/9/2021 | | | | | 145 |
| 8/10/2021 | | 101 | | | |
| 2/8/2022 | | | | | |
| 2/14/2022 | 297 | | 299 | 365 | |
| 2/15/2022 | | | | | |
| 2/16/2022 | | 90.7 | | | |
| 2/22/2022 | | | | | |
| 2/23/2022 | | | | | 209 |
| 2/28/2022 | | | | | |
| 7/19/2022 | | | | | |
| 7/20/2022 | | | | | 189 |
| 7/25/2022 | 286 (D) | | | | |
| 7/26/2022 | | | 311 | | |
| 8/2/2022 | | 97.300003 | | | |
| 8/3/2022 | | | | | |
| 8/8/2022 | | | | | |
| 8/9/2022 | | | | 344 | |
| 8/10/2022 | | | | | |

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 1:29 PM

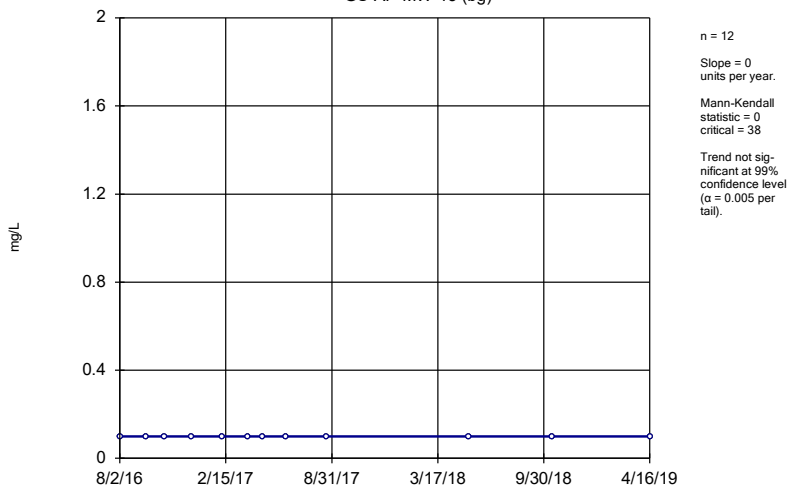
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------|------------------|----------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Boron (mg/L) | GS-AP-MW-6D | 0.04854 | 115 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-6S | -0.05502 | -84 | -74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-7 | 0.0488 | 114 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-19 | 2.671 | 93 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6D | 1.265 | 109 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-21 | 3.212 | 115 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-6D | 1.186 | 127 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-7 | 0.6846 | 158 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-8 (bg) | 0.1958 | 100 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-13 (bg) | 0.02914 | 48 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-2 | -0.1448 | -156 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-12 | 0.1291 | 111 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-15 | 0.3174 | 106 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-19 | -0.0756 | -86 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-2 | 0.05458 | 107 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-12 | 3.11 | 83 | 74 | Yes | 19 | 5.263 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-16D | 0.4932 | 100 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-21 | 45.63 | 155 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-6S | -25.45 | -98 | -74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-21 | 54.51 | 113 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 1:29 PM

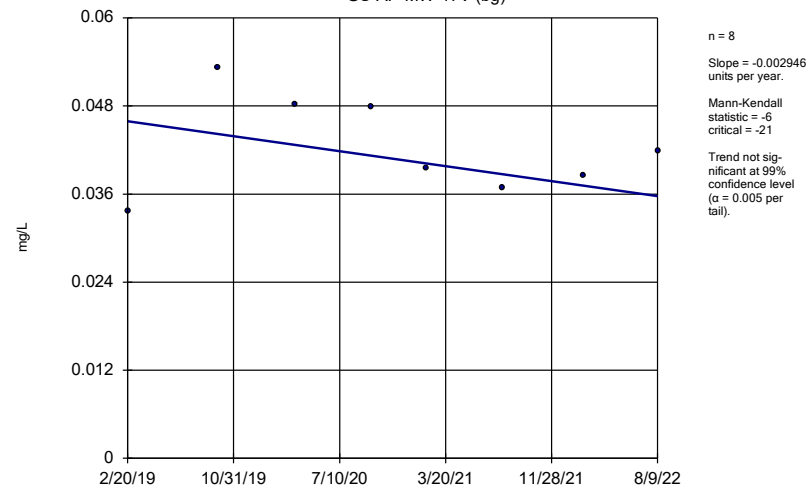
| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|------------------------|-------------------------|-----------------|-------------|------------|------------|-----------|--------------|------------|------------|-------------|-----------|
| Boron (mg/L) | GS-AP-MW-13 (bg) | 0 | 0 | 38 | No | 12 | 100 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-17V (bg) | -0.002946 | -6 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-2 | 0.003191 | 18 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-21 | 0.003685 | 56 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-6D | 0.04854 | 115 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-6S | -0.05502 | -84 | -74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-7 | 0.0488 | 114 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | GS-AP-MW-8 (bg) | 0 | 18 | 74 | No | 19 | 94.74 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-13 (bg) | -2.607 | -32 | -38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-17V (bg) | 0.5155 | 8 | 21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-19 | 2.671 | 93 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6D | 1.265 | 109 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-6S | -2.472 | -47 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | GS-AP-MW-8 (bg) | -0.5125 | -54 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-13 (bg) | 0.1178 | 10 | 38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-15 | -0.2488 | -39 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-17 | 0.248 | 15 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-17V (bg) | -0.1941 | -14 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-19 | -0.236 | -73 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-2 | -0.0806 | -11 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-21 | 3.212 | 115 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-6D | 1.186 | 127 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-6S | -0.6418 | -46 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-7 | 0.6846 | 158 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | GS-AP-MW-8 (bg) | 0.1958 | 100 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-13 (bg) | 0.02914 | 48 | 43 | Yes | 13 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-15 | -0.03405 | -52 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-17V (bg) | 0.000751 | 3 | 21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-2 | -0.1448 | -156 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride (mg/L) | GS-AP-MW-8 (bg) | 0.00285 | 29 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-12 | 0.1291 | 111 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-12V | -0.05815 | -2 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-13 (bg) | -0.05825 | -34 | -43 | No | 13 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-15 | 0.3174 | 106 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-17 | -0.003917 | -24 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-17V (bg) | -0.05933 | -15 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-19 | -0.0756 | -86 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-2 | 0.05458 | 107 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-21 | 0.07264 | 28 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| pH (SU) | GS-AP-MW-8 (bg) | -0.03466 | -73 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-12 | 3.11 | 83 | 74 | Yes | 19 | 5.263 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-13 (bg) | 0.01849 | 11 | 38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-16D | 0.4932 | 100 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-17V (bg) | -1.512 | -20 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-19 | 1.395 | 48 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-2 | 2.688 | 22 | 81 | No | 20 | 10 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-21 | 45.63 | 155 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-6D | 1.001 | 35 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-6S | -25.45 | -98 | -74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-7 | -1.108 | -32 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | GS-AP-MW-8 (bg) | 0.169 | 36 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-13 (bg) | -7.182 | -29 | -38 | No | 12 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-15 | 34.3 | 59 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-17 | 19.56 | 72 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-17V (bg) | -2.073 | -5 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-21 | 54.51 | 113 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| TDS (mg/L) | GS-AP-MW-8 (bg) | -2.33 | -37 | -74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator
 GS-AP-MW-13 (bg)



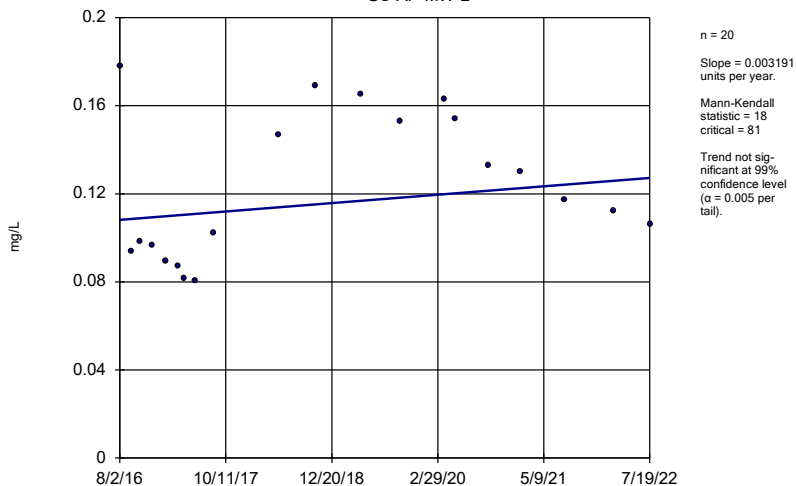
Constituent: Boron Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator
 GS-AP-MW-17V (bg)



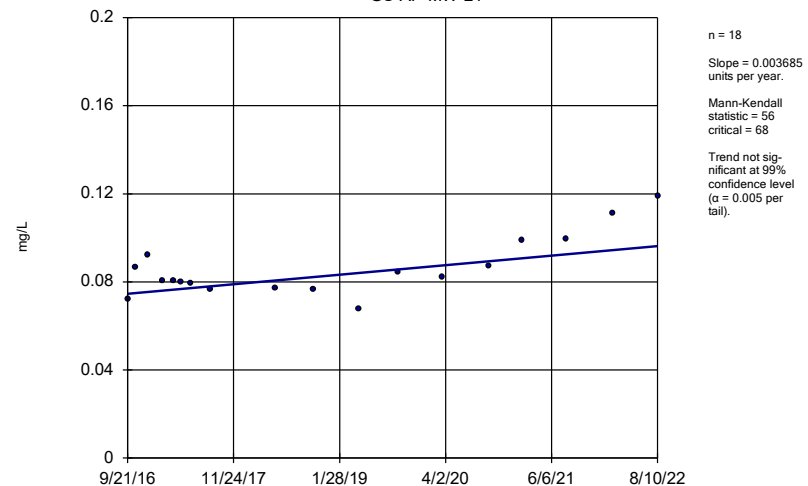
Constituent: Boron Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator
 GS-AP-MW-2



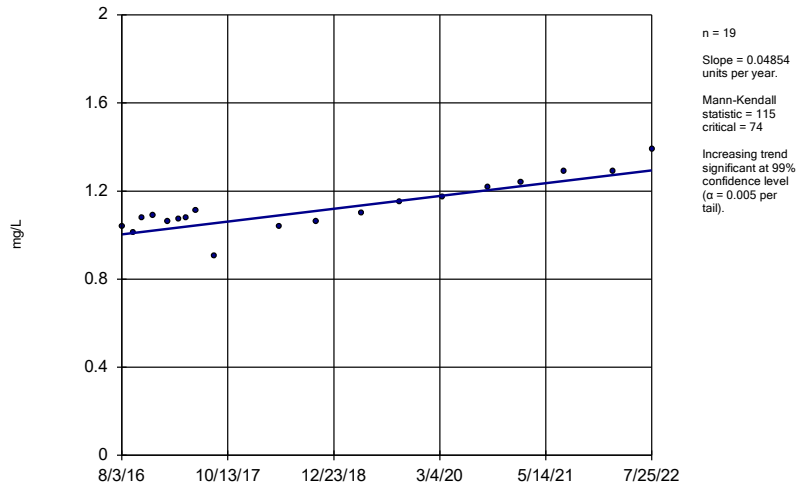
Constituent: Boron Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator
 GS-AP-MW-21



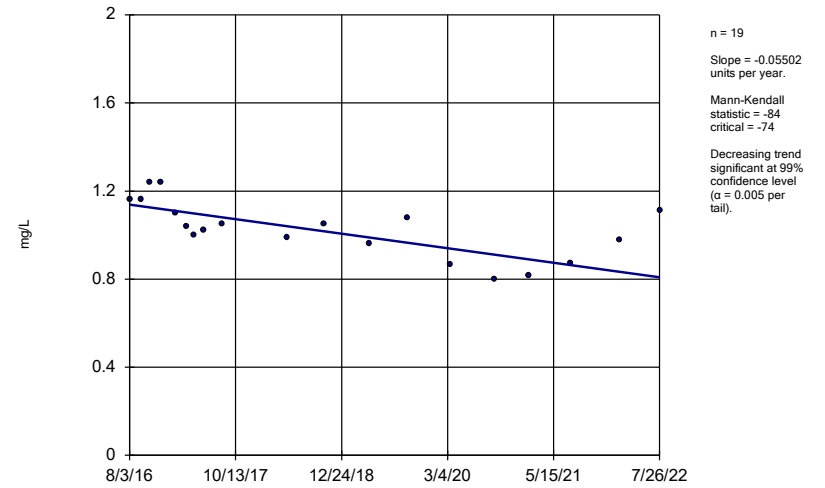
Constituent: Boron Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-6D



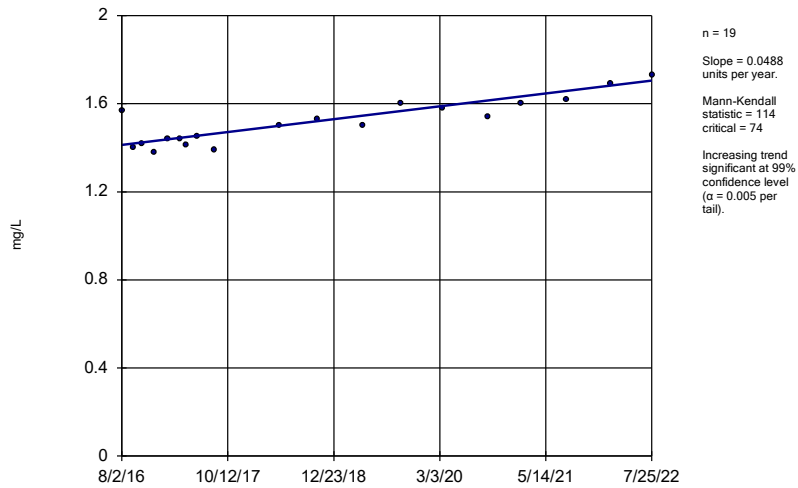
Constituent: Boron Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-6S



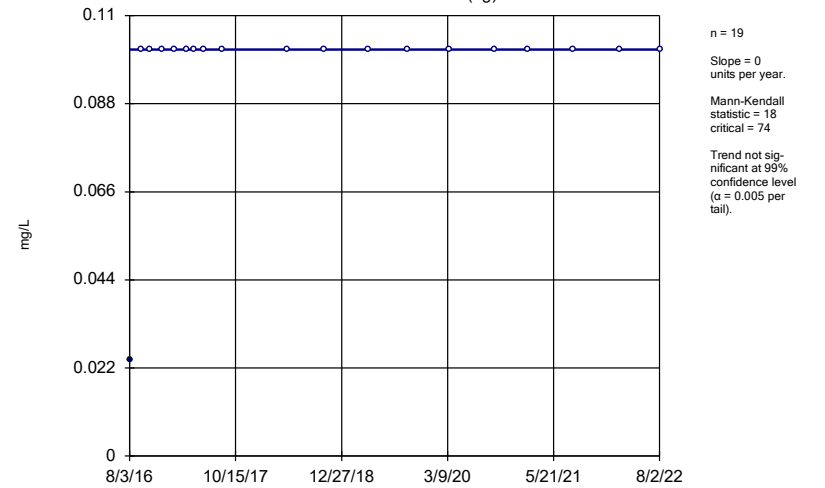
Constituent: Boron Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-7



Constituent: Boron Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

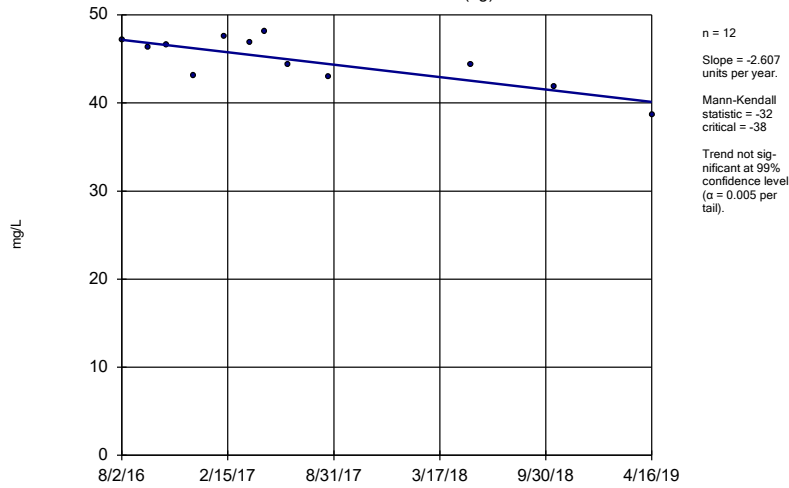
Sen's Slope Estimator GS-AP-MW-8 (bg)



Constituent: Boron Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

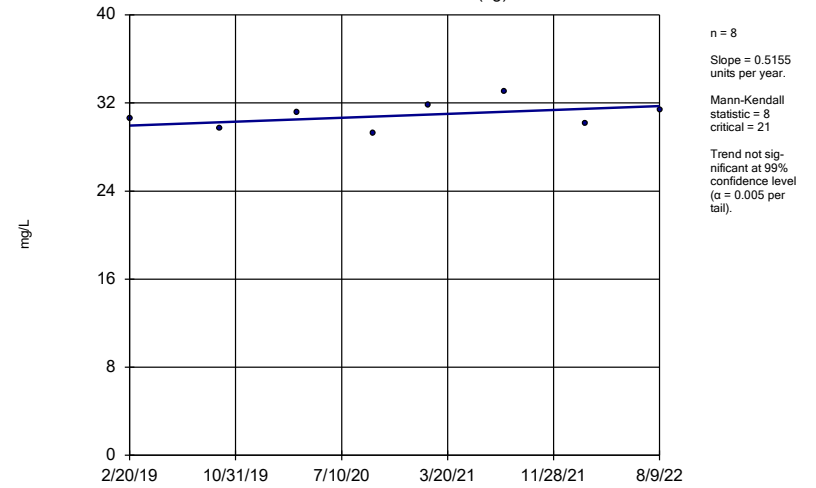
GS-AP-MW-13 (bg)



Constituent: Calcium Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

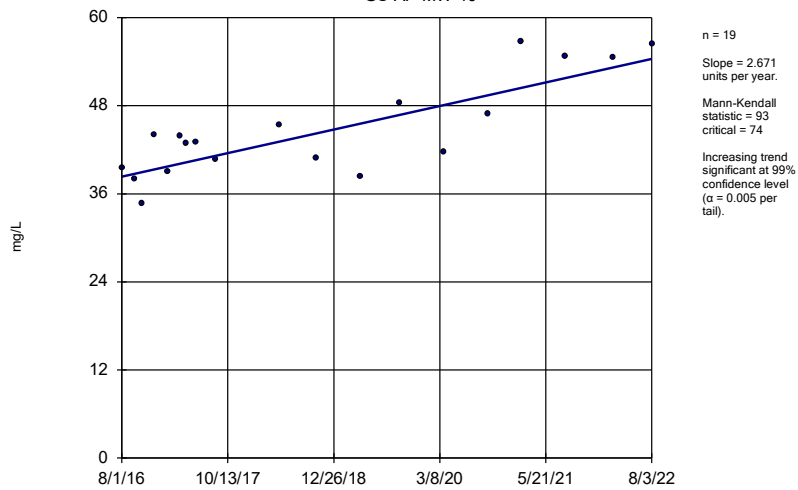
GS-AP-MW-17V (bg)



Constituent: Calcium Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

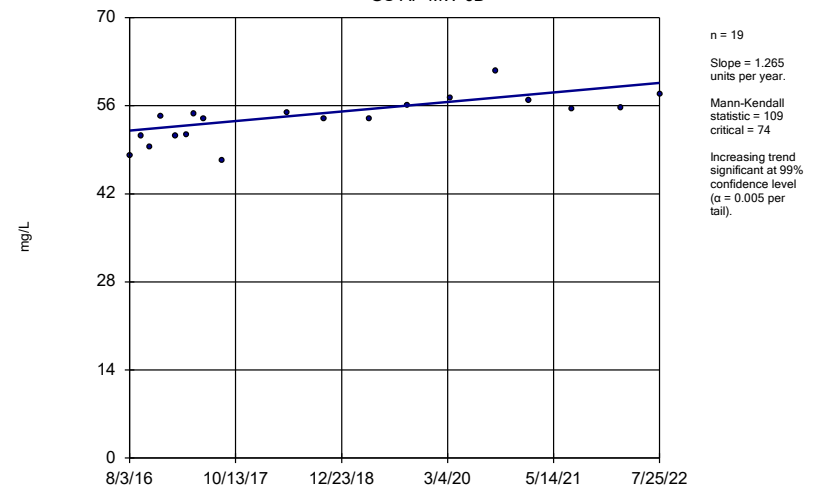
GS-AP-MW-19



Constituent: Calcium Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

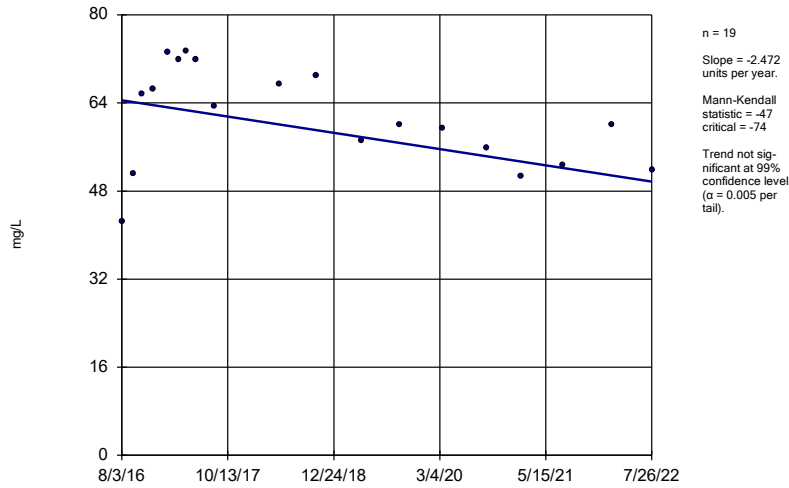
Sen's Slope Estimator

GS-AP-MW-6D



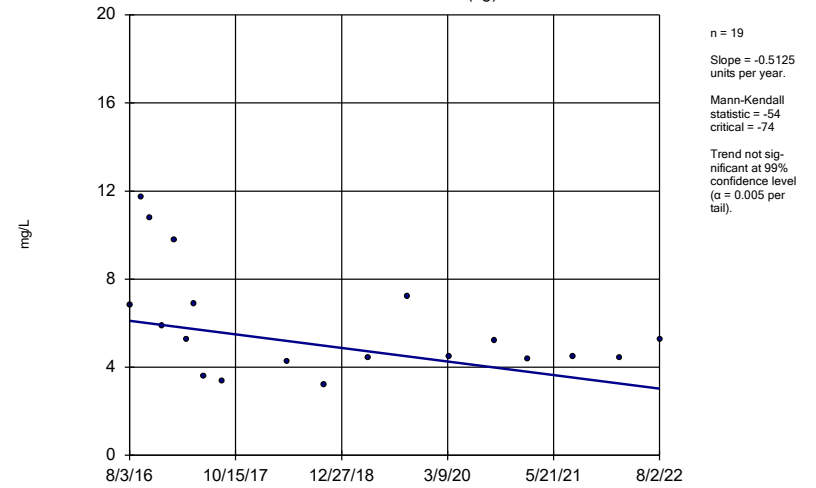
Constituent: Calcium Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-6S



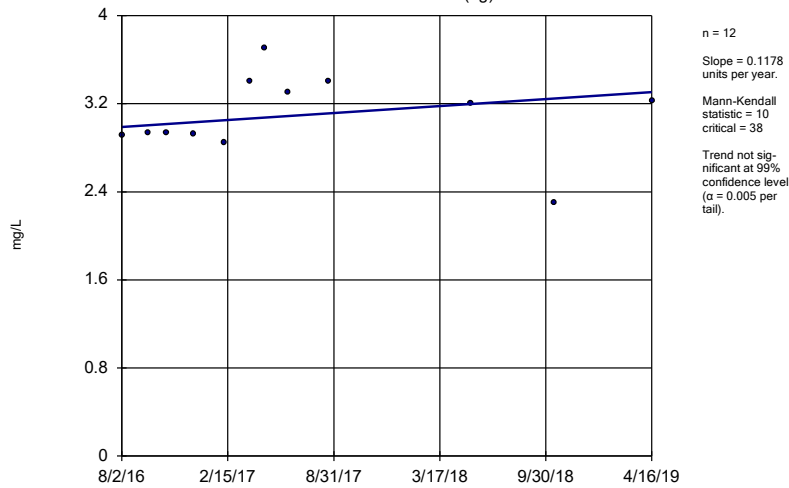
Constituent: Calcium Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-8 (bg)



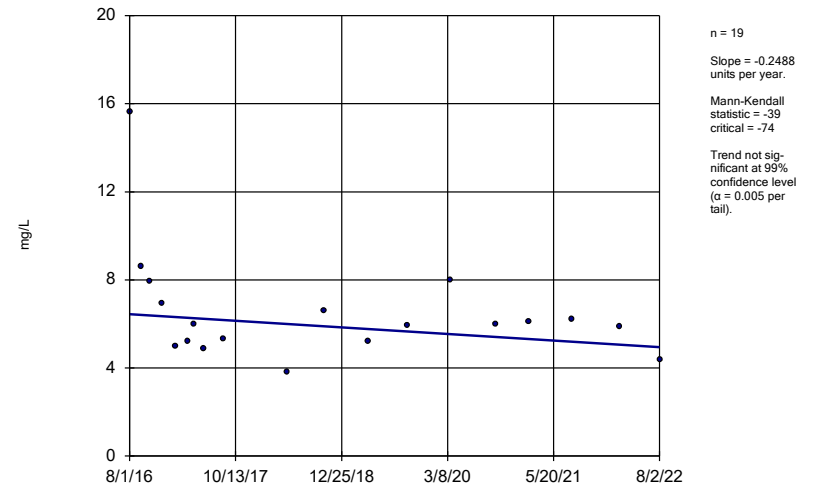
Constituent: Calcium Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-13 (bg)



Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

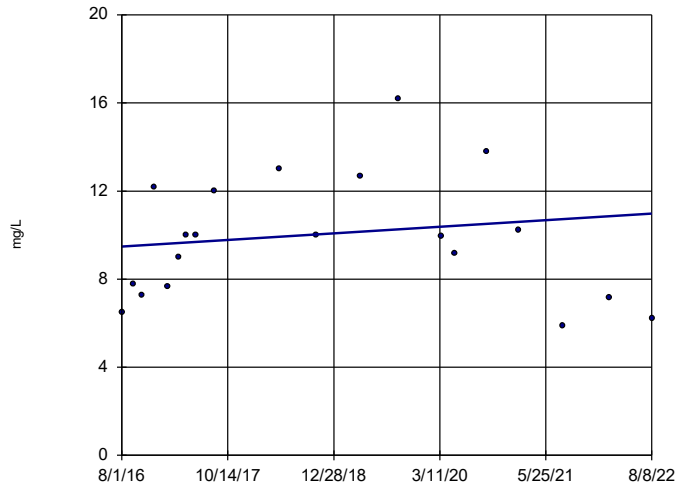
Sen's Slope Estimator GS-AP-MW-15



Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-17

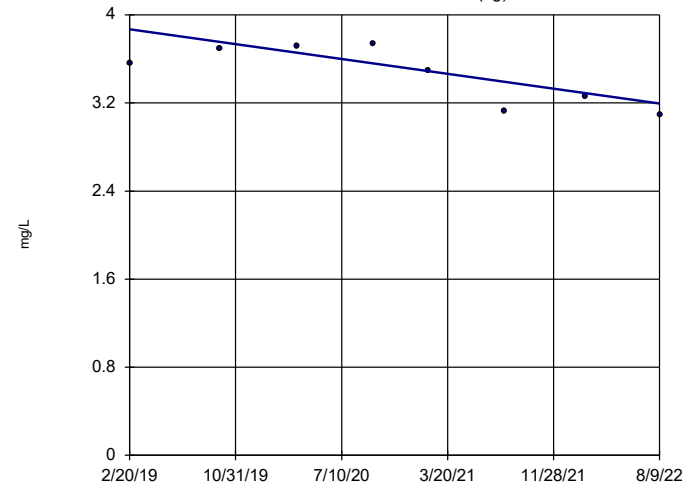


n = 20
 Slope = 0.248
 units per year.
 Mann-Kendall
 statistic = 15
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

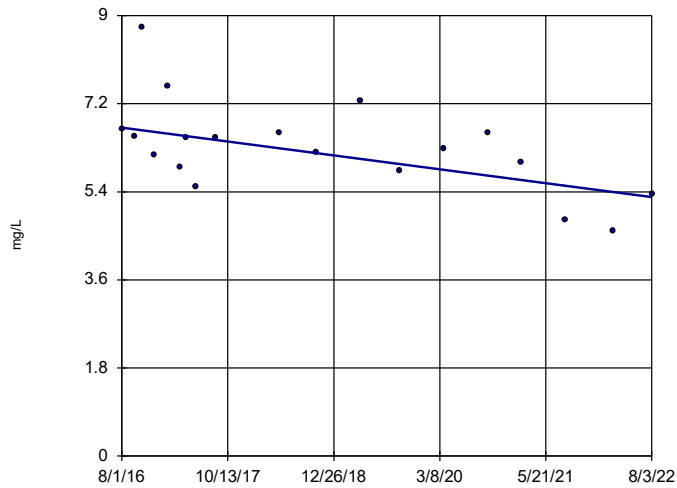


n = 8
 Slope = -0.1941
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-19

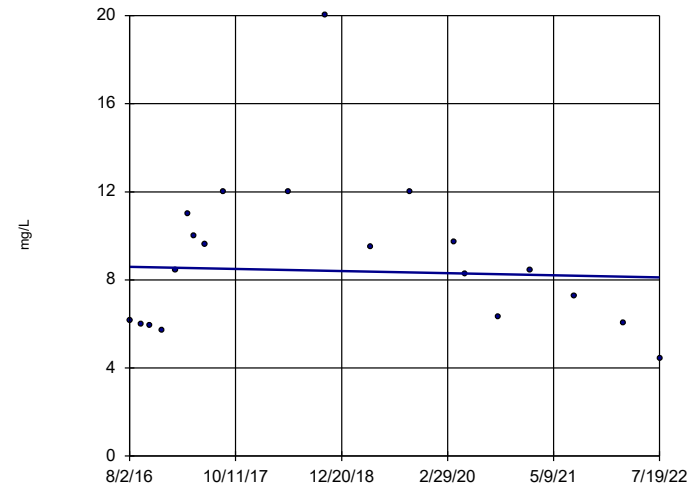


n = 19
 Slope = -0.236
 units per year.
 Mann-Kendall
 statistic = -73
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-2

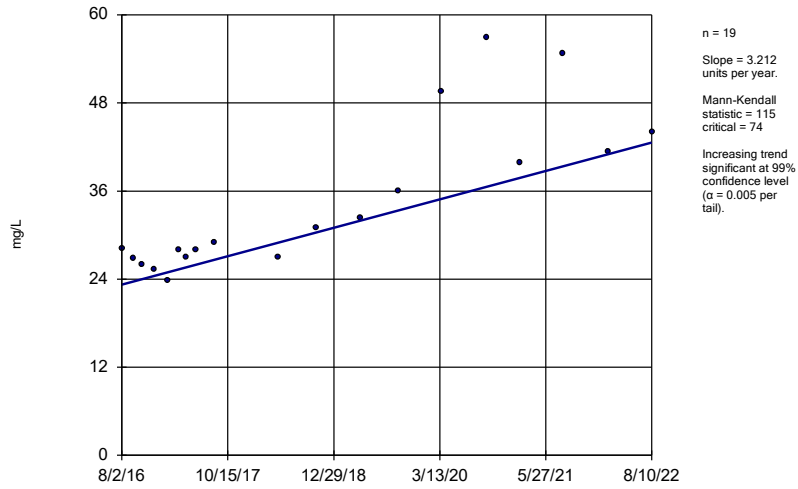


n = 20
 Slope = -0.0806
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

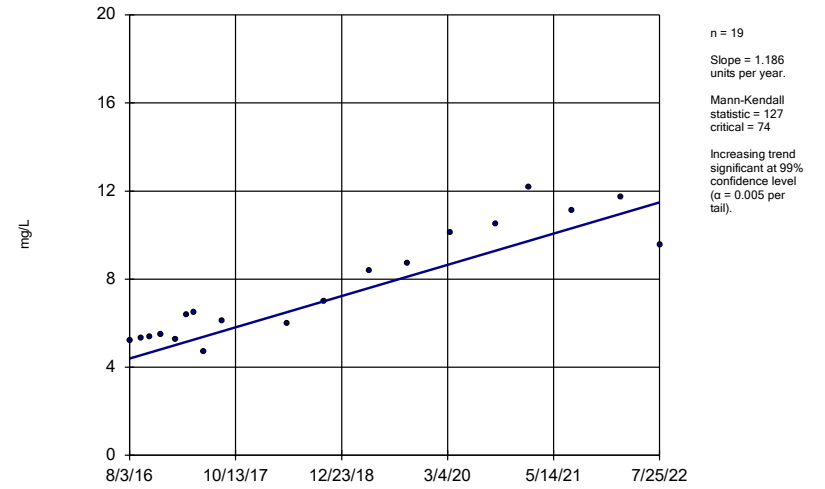
GS-AP-MW-21



Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

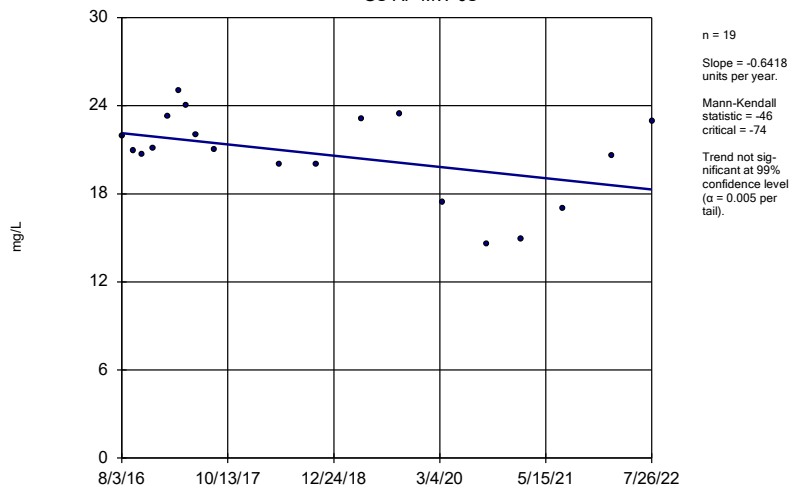
GS-AP-MW-6D



Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

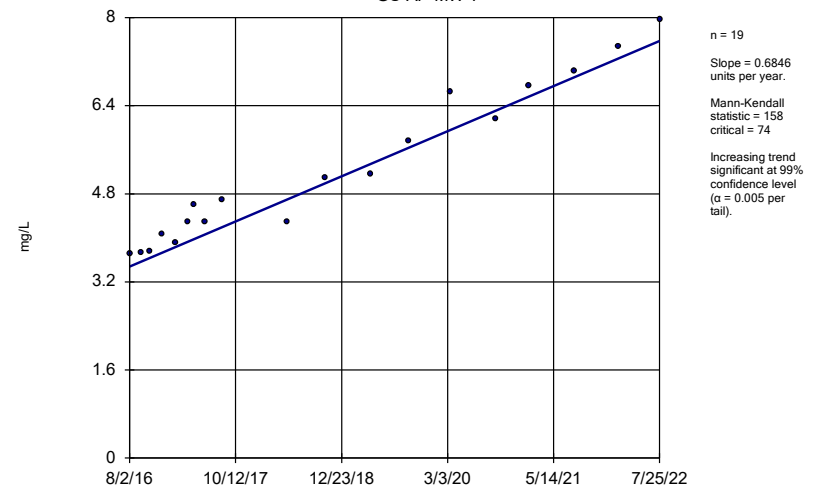
GS-AP-MW-6S



Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

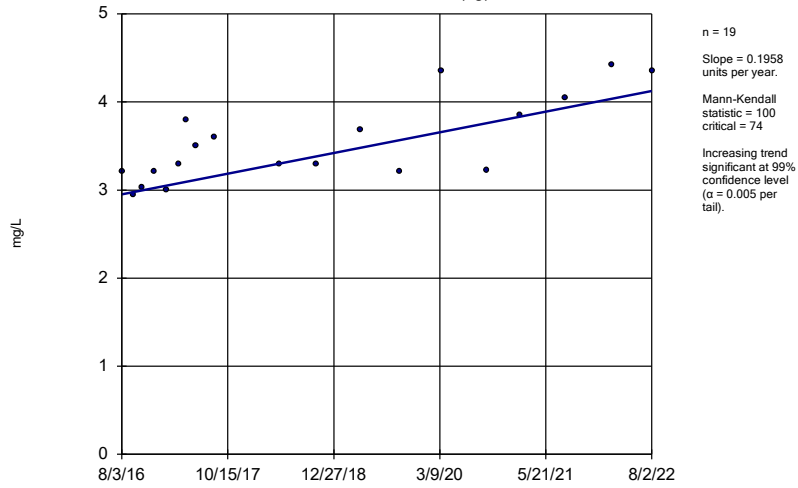
GS-AP-MW-7



Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

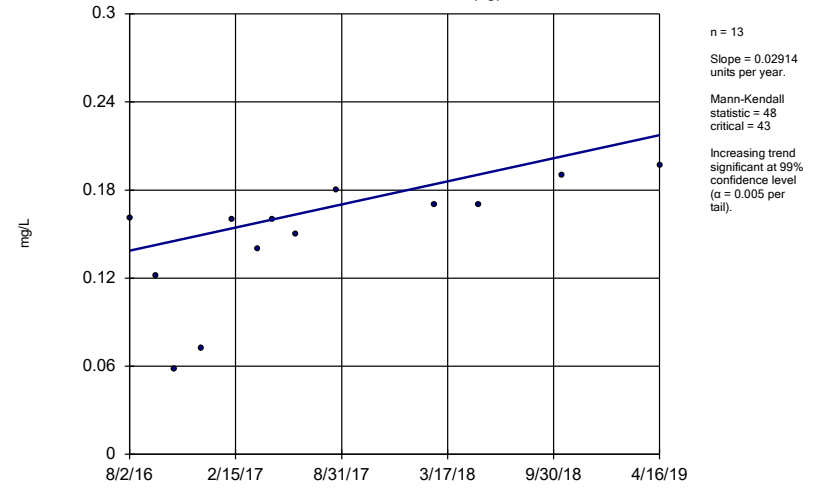
GS-AP-MW-8 (bg)



Constituent: Chloride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

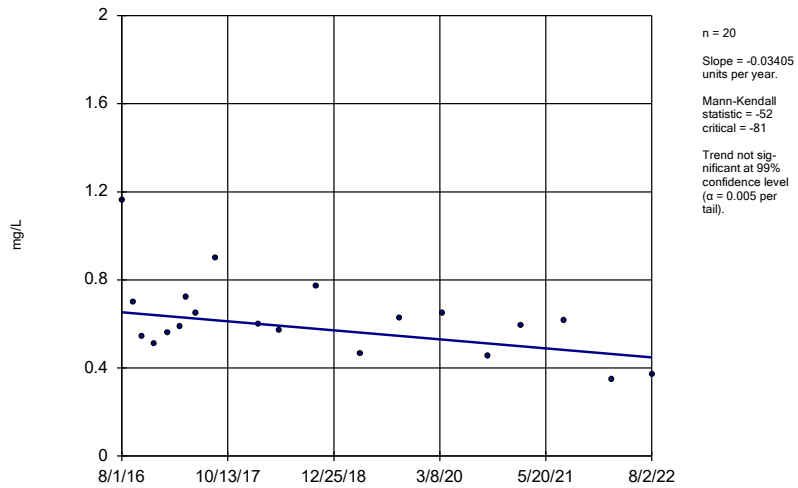
GS-AP-MW-13 (bg)



Constituent: Fluoride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

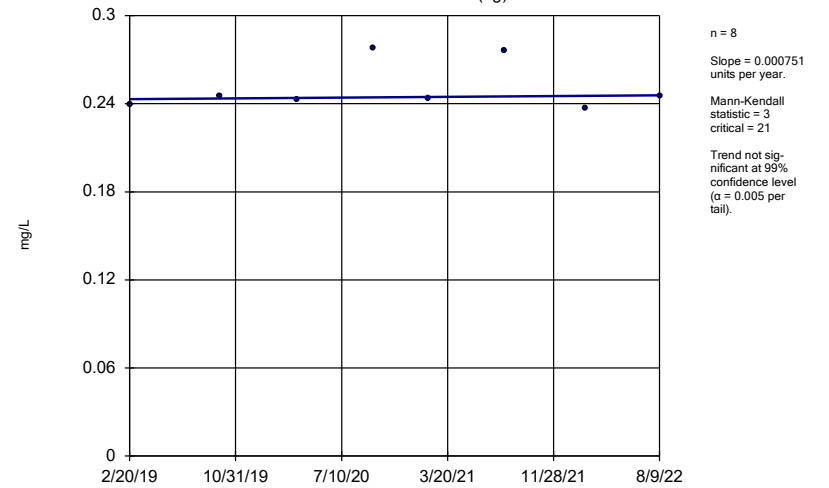
GS-AP-MW-15



Constituent: Fluoride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

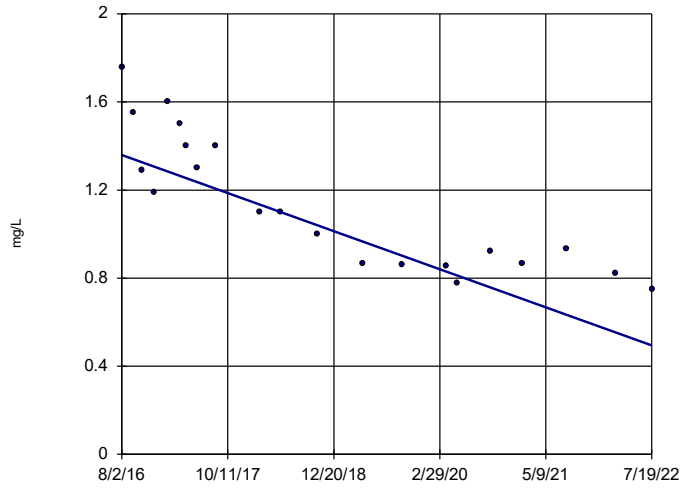
GS-AP-MW-17V (bg)



Constituent: Fluoride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-2

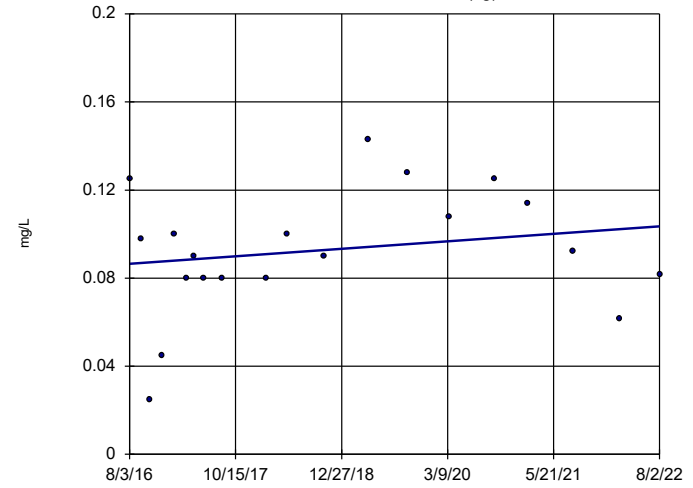


n = 21
 Slope = -0.1448 units per year.
 Mann-Kendall statistic = -156
 critical = -87
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)

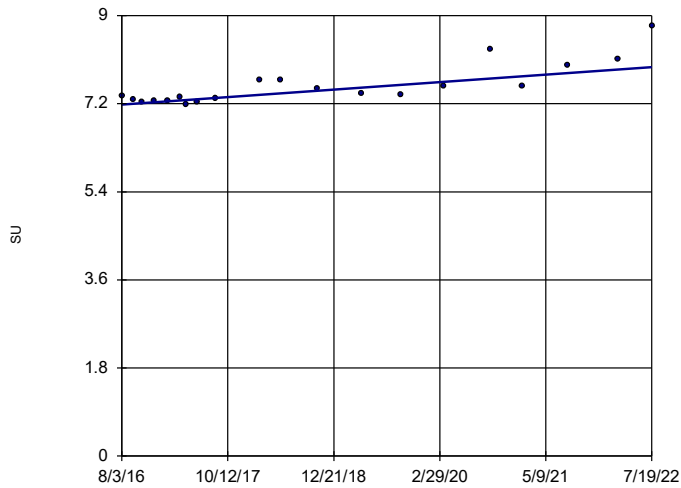


n = 20
 Slope = 0.00285 units per year.
 Mann-Kendall statistic = 29
 critical = 81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-12

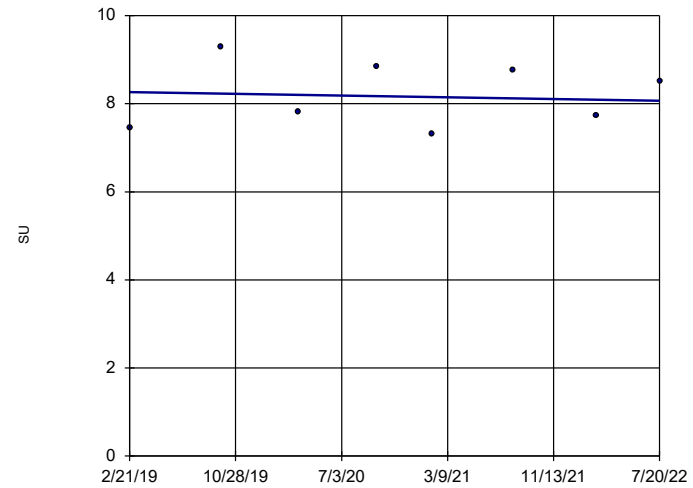


n = 20
 Slope = 0.1291 units per year.
 Mann-Kendall statistic = 111
 critical = 81
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-12V

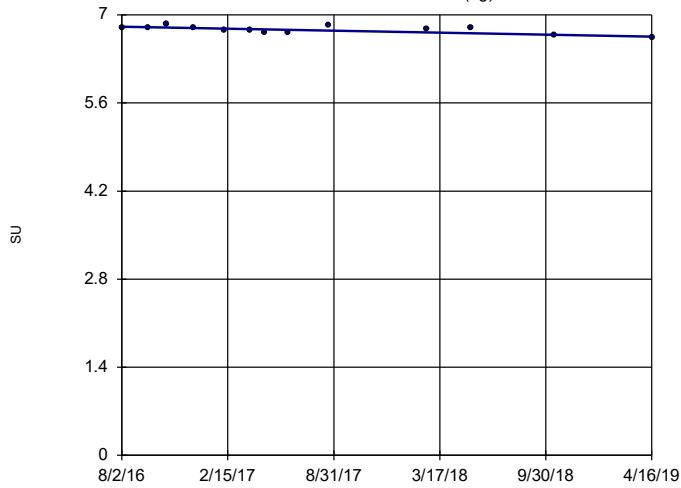


n = 8
 Slope = -0.05815 units per year.
 Mann-Kendall statistic = -2
 critical = -21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-13 (bg)

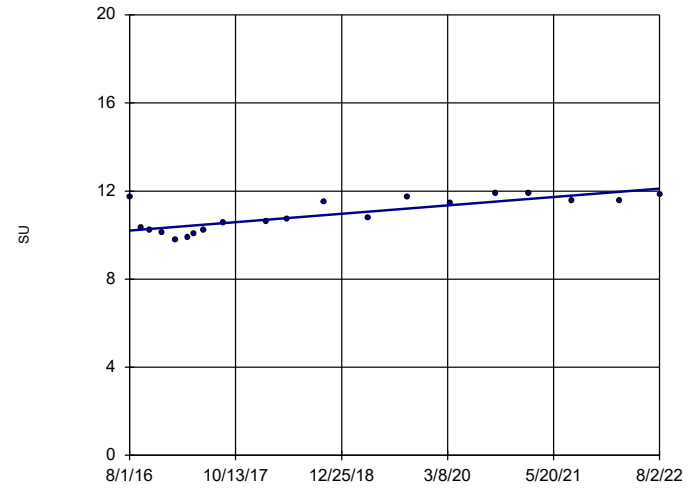


n = 13
 Slope = -0.05825
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -43
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-15

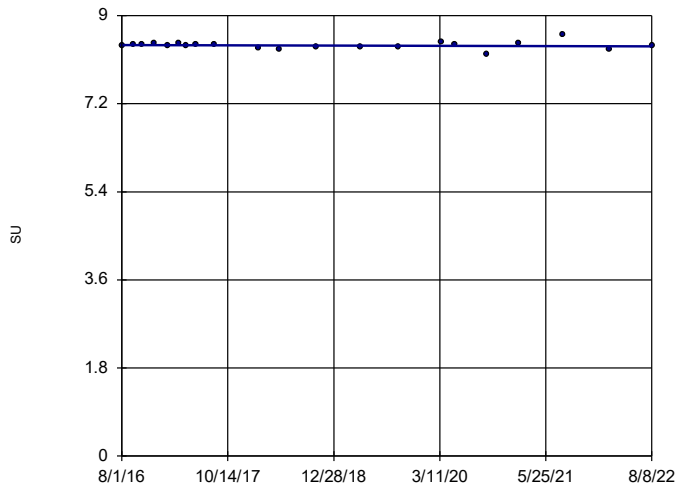


n = 20
 Slope = 0.3174
 units per year.
 Mann-Kendall
 statistic = 106
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-17

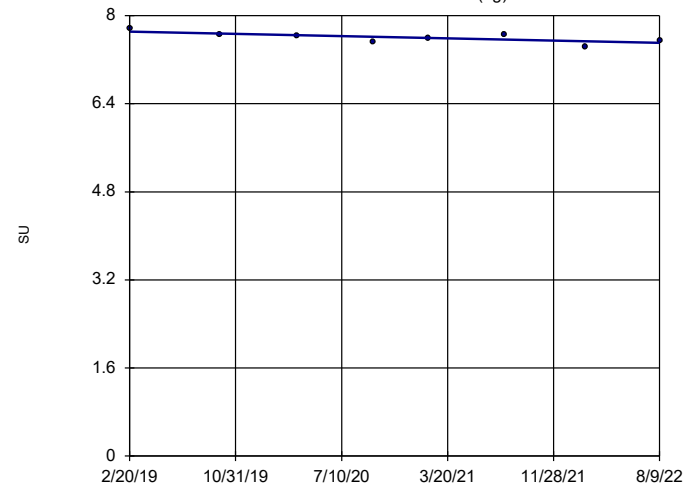


n = 21
 Slope = -0.003917
 units per year.
 Mann-Kendall
 statistic = -24
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-17V (bg)

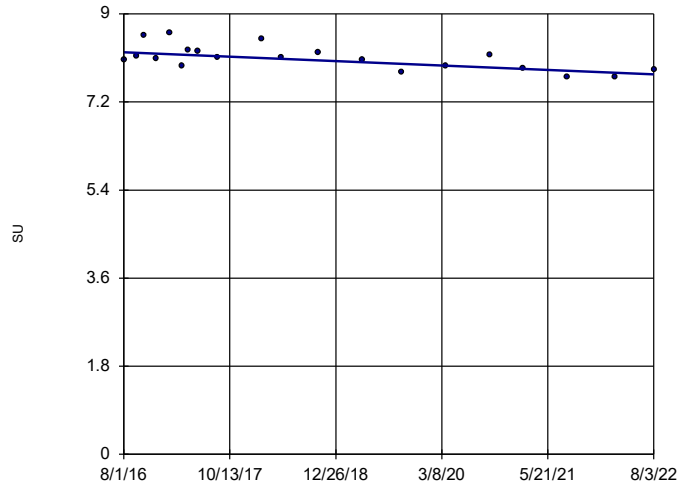


n = 8
 Slope = -0.05933
 units per year.
 Mann-Kendall
 statistic = -15
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

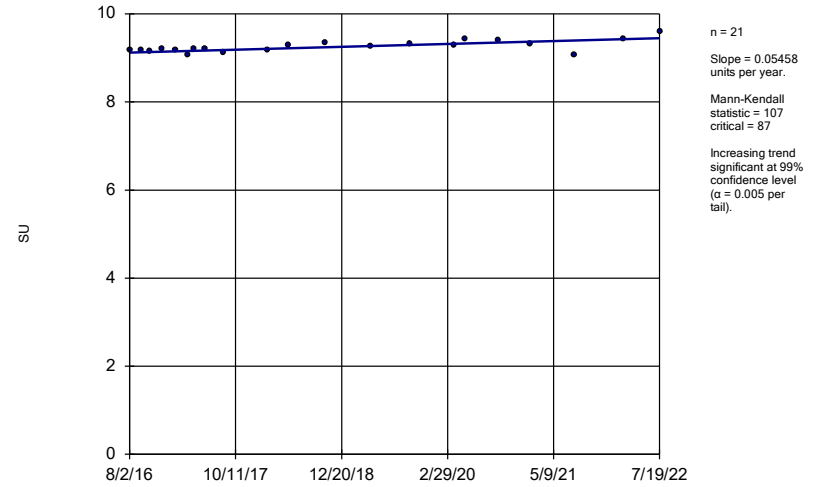
GS-AP-MW-19



Constituent: pH Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

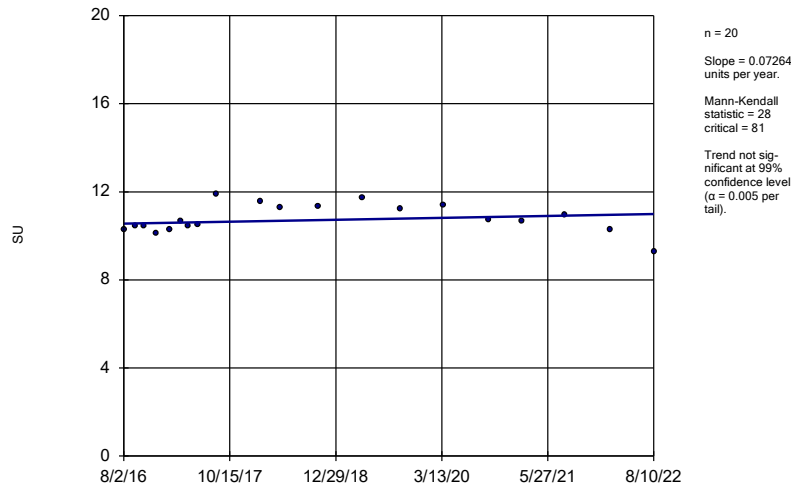
GS-AP-MW-2



Constituent: pH Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

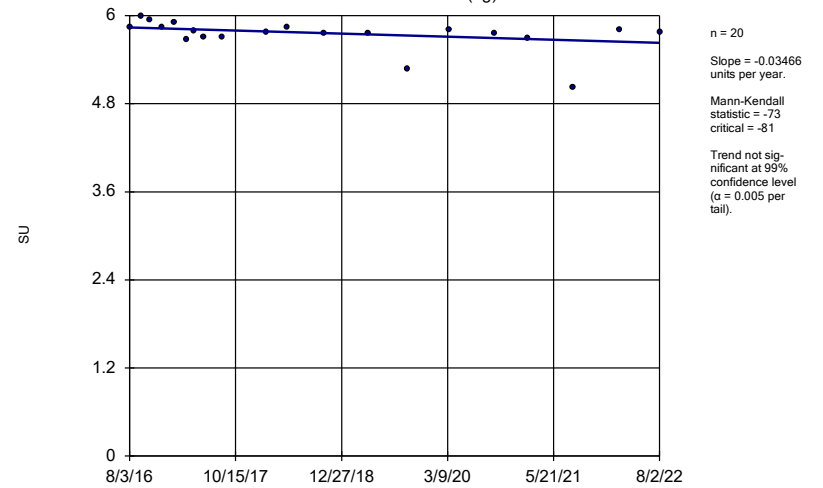
GS-AP-MW-21



Constituent: pH Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

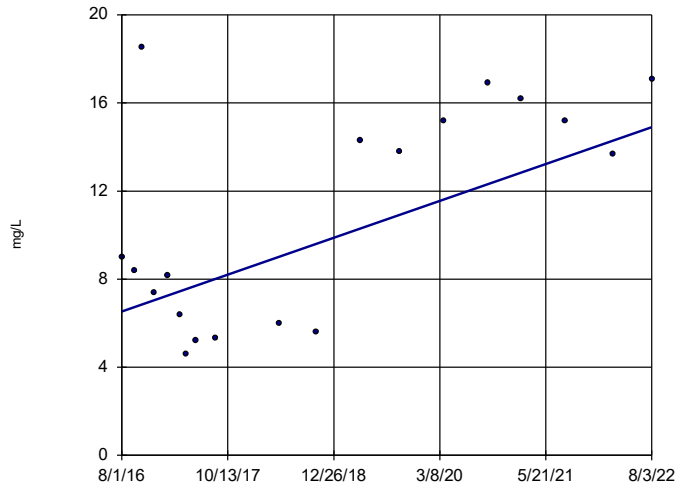
GS-AP-MW-8 (bg)



Constituent: pH Analysis Run 10/4/2022 1:22 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-19

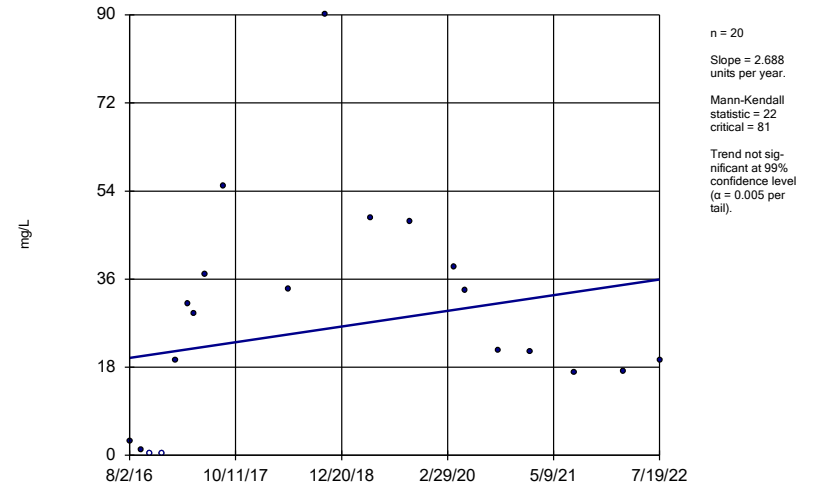


Constituent: Sulfate Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

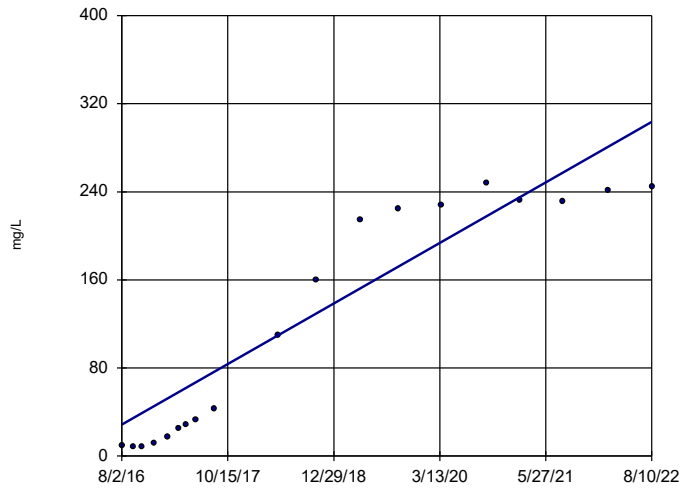
GS-AP-MW-2



Constituent: Sulfate Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

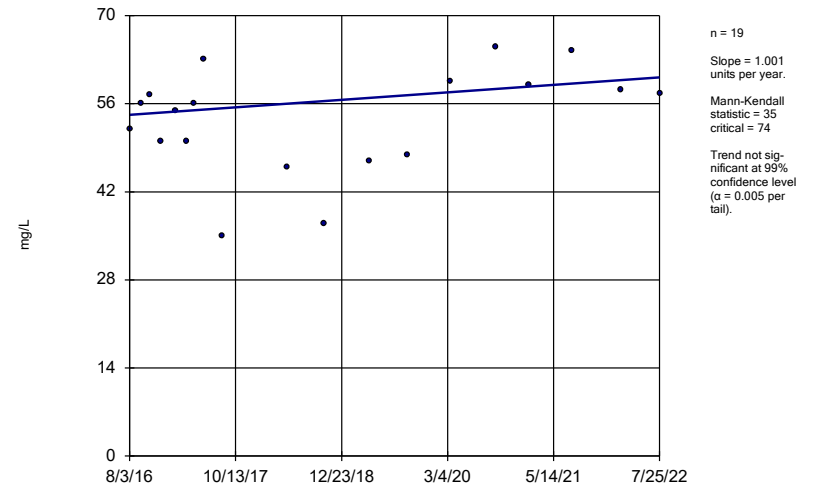
GS-AP-MW-21



Constituent: Sulfate Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

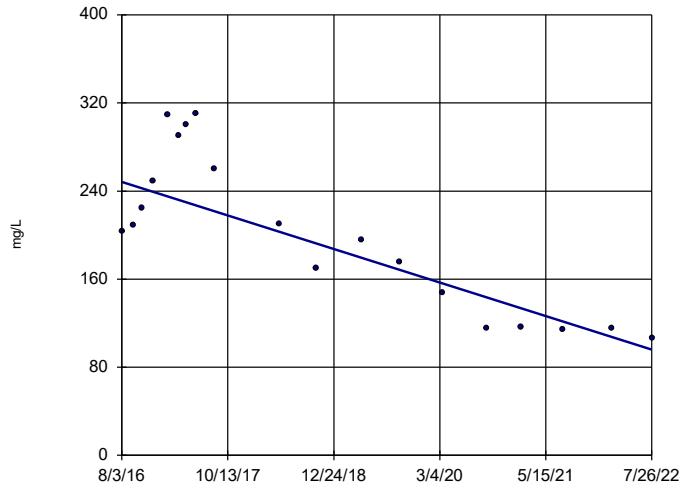
Sen's Slope Estimator

GS-AP-MW-6D



Constituent: Sulfate Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

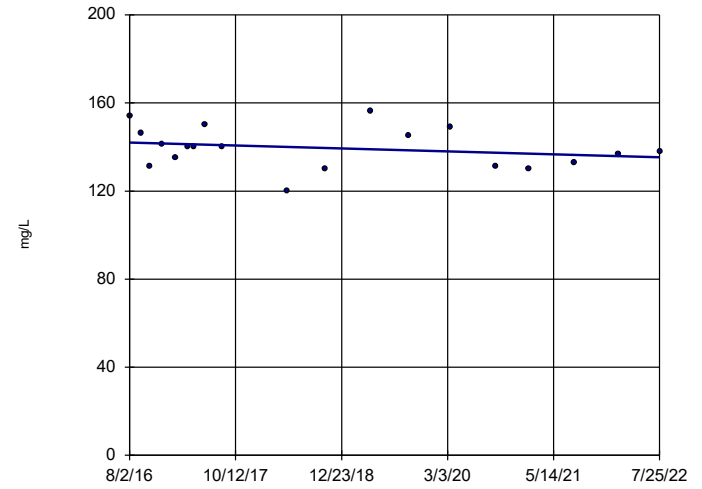
Sen's Slope Estimator GS-AP-MW-6S



n = 19
Slope = -25.45
units per year.
Mann-Kendall
statistic = -.98
critical = -.74
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

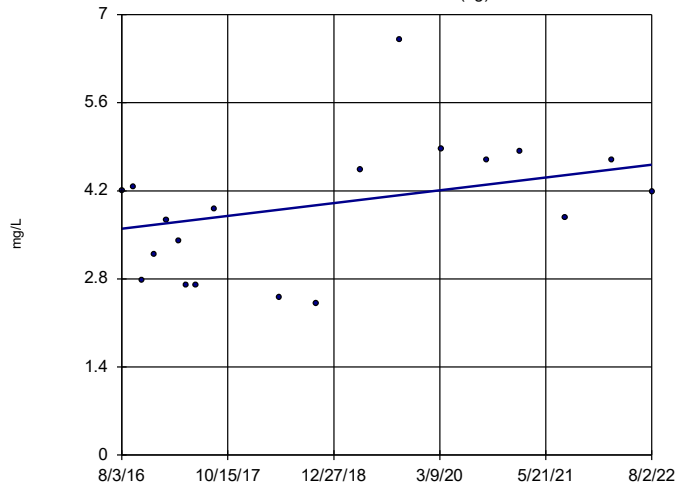
Sen's Slope Estimator GS-AP-MW-7



n = 19
Slope = -1.108
units per year.
Mann-Kendall
statistic = -.32
critical = -.74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

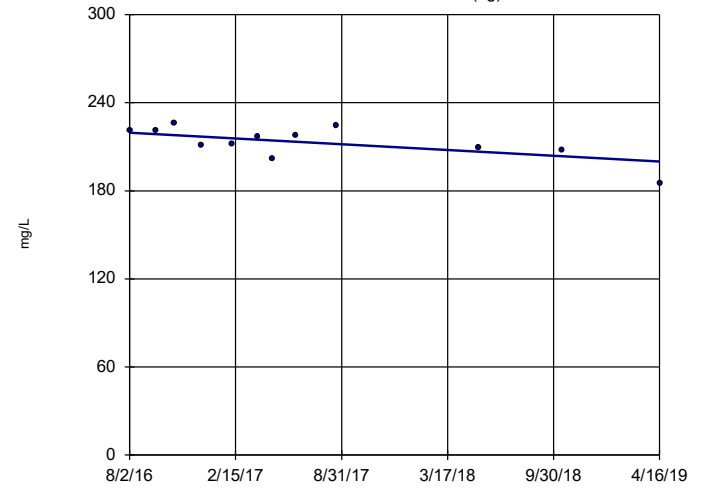
Sen's Slope Estimator GS-AP-MW-8 (bg)



n = 19
Slope = 0.169
units per year.
Mann-Kendall
statistic = .36
critical = .74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator GS-AP-MW-13 (bg)

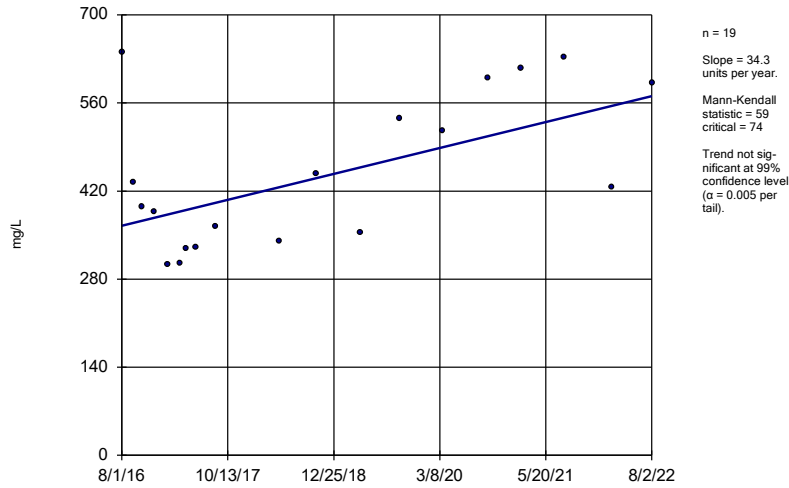


n = 12
Slope = -7.182
units per year.
Mann-Kendall
statistic = -.29
critical = -.38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: TDS Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

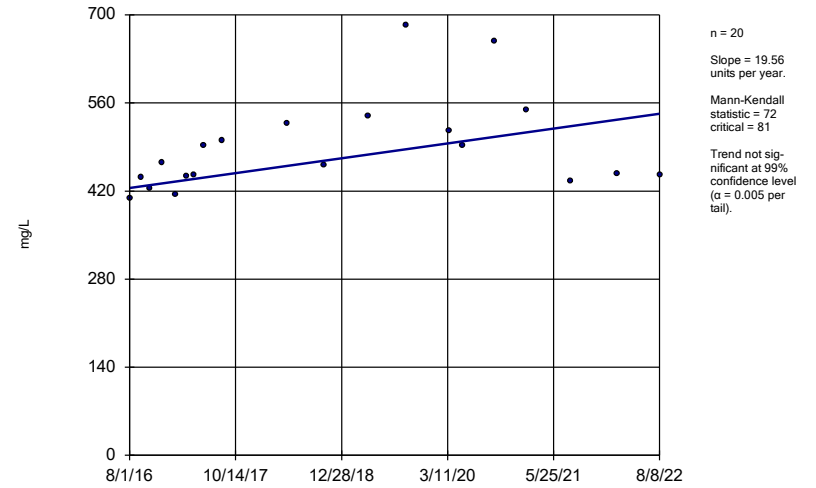
GS-AP-MW-15



Constituent: TDS Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

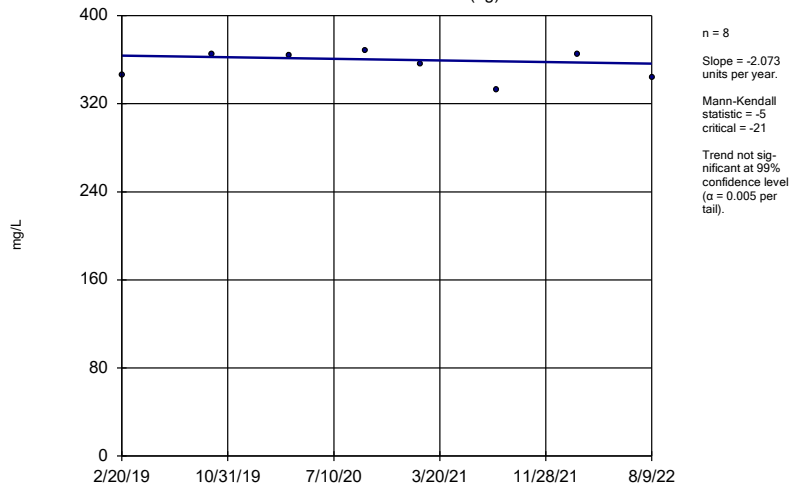
GS-AP-MW-17



Constituent: TDS Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

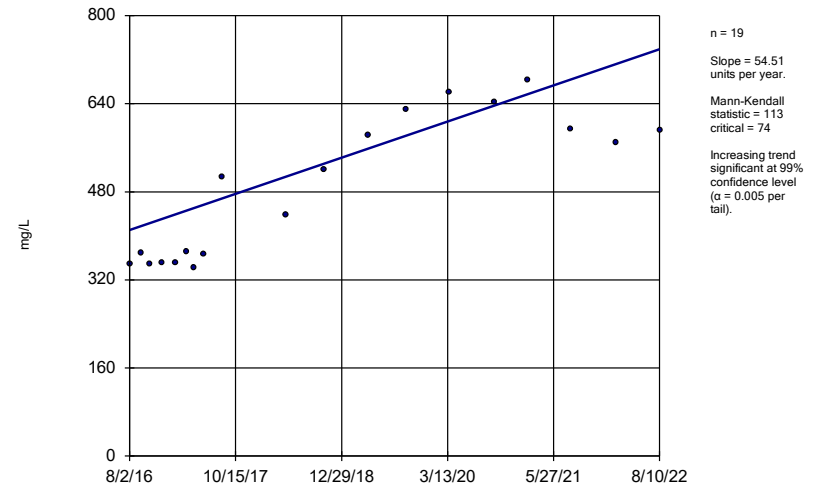
GS-AP-MW-17V (bg)



Constituent: TDS Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

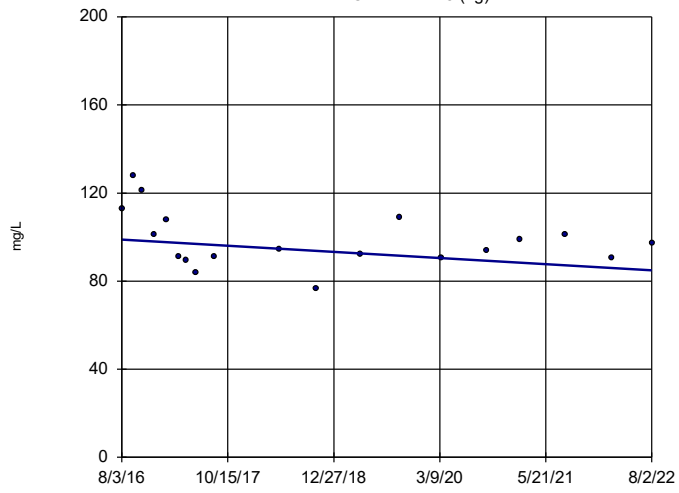
GS-AP-MW-21



Constituent: TDS Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Sen's Slope Estimator

GS-AP-MW-8 (bg)



n = 19

Slope = -2.33
units per year.

Mann-Kendall
statistic = -37
critical = -74

Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: TDS Analysis Run 10/4/2022 1:23 PM View: Appendix III - Trend Tests

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

FIGURE F.

Upper Tolerance Limits

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 1/3/2022, 11:49 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------|
| Antimony (mg/L) | n/a | 0.00115 | n/a | n/a | n/a | 35 | 94.29 | n/a | 0.1661 | NP Inter |
| Arsenic (mg/L) | n/a | 0.005 | n/a | n/a | n/a | 35 | 71.43 | n/a | 0.1661 | NP Inter |
| Barium (mg/L) | n/a | 0.353 | n/a | n/a | n/a | 35 | 0 | n/a | 0.1661 | NP Inter |
| Beryllium (mg/L) | n/a | 0.00102 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Cadmium (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Chromium (mg/L) | n/a | 0.01 | n/a | n/a | n/a | 35 | 77.14 | n/a | 0.1661 | NP Inter |
| Cobalt (mg/L) | n/a | 0.00362 | n/a | n/a | n/a | 35 | 80 | n/a | 0.1661 | NP Inter |
| Combined Radium 226 + 228 (pCi/L) | n/a | 1.25 | n/a | n/a | n/a | 35 | 0 | n/a | 0.1661 | NP Inter |
| Fluoride (mg/L) | n/a | 0.278 | n/a | n/a | n/a | 37 | 0 | n/a | 0.1499 | NP Inter |
| Lead (mg/L) | n/a | 0.00189 | n/a | n/a | n/a | 35 | 91.43 | n/a | 0.1661 | NP Inter |
| Lithium (mg/L) | n/a | 0.0809 | n/a | n/a | n/a | 35 | 54.29 | n/a | 0.1661 | NP Inter |
| Mercury (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Molybdenum (mg/L) | n/a | 0.00906 | n/a | n/a | n/a | 35 | 82.86 | n/a | 0.1661 | NP Inter |
| Selenium (mg/L) | n/a | 0.00102 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |
| Thallium (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | 35 | 100 | n/a | 0.1661 | NP Inter |

FIGURE G.

| GORGAS ASH POND GWPS | | | |
|-----------------------------|--------------|-------------------|-------------|
| Analyte | Units | Background | GWPS |
| Antimony | mg/L | 0.00115 | 0.006 |
| Arsenic | mg/L | 0.005 | 0.01 |
| Barium | mg/L | 0.353 | 2 |
| Beryllium | mg/L | 0.00102 | 0.004 |
| Cadmium | mg/L | 0.0002 | 0.005 |
| Chromium | mg/L | 0.01 | 0.1 |
| Cobalt | mg/L | 0.00362 | 0.006 |
| Combined Radium-226/228 | pCi/L | 1.25 | 5 |
| Fluoride | mg/L | 0.278 | 4 |
| Lead | mg/L | 0.00189 | 0.015 |
| Lithium | mg/L | 0.0809 | 0.0809 |
| Mercury | mg/L | 0.0005 | 0.002 |
| Molybdenum | mg/L | 0.00906 | 0.1 |
| Selenium | mg/L | 0.00102 | 0.05 |
| Thallium | mg/L | 0.0002 | 0.002 |

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

FIGURE H.

Confidence Intervals - Significant Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 11:58 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------|-------------|------------|------------|------------|--------------|------|---|--------|-----------|------|---------|-----------|-------|----------------|
| Arsenic (mg/L) | GS-AP-MW-6D | 0.1149 | 0.08975 | 0.01 | n/a | Yes | 8 | 0.1023 | 0.01188 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-7 | 0.285 | 0.207 | 0.01 | n/a | Yes | 8 | 0.2646 | 0.02871 | 0 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | GS-AP-MW-15 | 0.5427 | 0.2753 | 0.0809 | n/a | Yes | 8 | 0.409 | 0.1262 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21 | 0.3299 | 0.1162 | 0.0809 | n/a | Yes | 8 | 0.2231 | 0.1008 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-6D | 0.3311 | 0.2714 | 0.0809 | n/a | Yes | 8 | 0.3013 | 0.0282 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-7 | 0.2109 | 0.1488 | 0.0809 | n/a | Yes | 8 | 0.1799 | 0.02929 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-7 | 0.2181 | 0.1856 | 0.1 | n/a | Yes | 8 | 0.2019 | 0.01533 | 0 | None | No | 0.01 | Param. |

Confidence Intervals - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 11:58 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|--------------------|---------------|----------------|-------------|--------------|------------|----------|---------------|----------------|----------|--------------|-----------|--------------|-----------------------|
| Antimony (mg/L) | GS-AP-MW-12 | 0.004079 | 0.0007964 | 0.006 | n/a | No | 8 | 0.002284 | 0.001727 | 25 | Kaplan-Meier | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-12V | 0.001754 | 0.0005393 | 0.006 | n/a | No | 8 | 0.001127 | 0.0006444 | 0 | None | sqrt(x) | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-15 | 0.0008948 | 0.0006595 | 0.006 | n/a | No | 8 | 0.0008366 | 0.0001506 | 25 | Kaplan-Meier | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-15V | 0.003069 | 0.0007644 | 0.006 | n/a | No | 6 | 0.001917 | 0.0008388 | 0 | None | No | 0.01 | Param. |
| Antimony (mg/L) | GS-AP-MW-21V | 0.001015 | 0.000661 | 0.006 | n/a | No | 6 | 0.0009253 | 0.000149 | 66.67 | None | No | 0.0155 | NP (NDs) |
| Antimony (mg/L) | GS-AP-MW-6D | 0.001015 | 0.000828 | 0.006 | n/a | No | 8 | 0.0009916 | 0.00006611 | 87.5 | None | No | 0.004 | NP (NDs) |
| Antimony (mg/L) | GS-AP-MW-7 | 0.00105 | 0.001015 | 0.006 | n/a | No | 8 | 0.001019 | 0.00001237 | 87.5 | None | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-12 | 0.01171 | 0.003239 | 0.01 | n/a | No | 8 | 0.00733 | 0.004276 | 0 | None | sqrt(x) | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-12V | 0.002077 | 0.0005765 | 0.01 | n/a | No | 8 | 0.001327 | 0.0007077 | 12.5 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-15 | 0.01812 | 0.006942 | 0.01 | n/a | No | 8 | 0.01253 | 0.005273 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-15V | 0.01725 | 0.006124 | 0.01 | n/a | No | 6 | 0.01169 | 0.00405 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-16D | 0.000491 | 0.0001 | 0.01 | n/a | No | 8 | 0.0002158 | 0.000119 | 62.5 | None | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-17 | 0.005472 | 0.0008749 | 0.01 | n/a | No | 8 | 0.003174 | 0.002169 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-19 | 0.003225 | 0.001398 | 0.01 | n/a | No | 8 | 0.002311 | 0.000862 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-2 | 0.000203 | 0.000083 | 0.01 | n/a | No | 8 | 0.000188 | 0.00004243 | 87.5 | None | No | 0.004 | NP (NDs) |
| Arsenic (mg/L) | GS-AP-MW-21 | 0.000624 | 0.000203 | 0.01 | n/a | No | 8 | 0.0003664 | 0.0001807 | 50 | None | No | 0.004 | NP (normality) |
| Arsenic (mg/L) | GS-AP-MW-21V | 0.0142 | 0.00005729 | 0.01 | n/a | No | 6 | 0.007128 | 0.005147 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-3 | 0.0002279 | 0.00009458 | 0.01 | n/a | No | 4 | 0.0001613 | 0.00002936 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-6D | 0.1149 | 0.08975 | 0.01 | n/a | Yes | 8 | 0.1023 | 0.01188 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | GS-AP-MW-7 | 0.285 | 0.207 | 0.01 | n/a | Yes | 8 | 0.2646 | 0.02871 | 0 | None | No | 0.004 | NP (normality) |
| Arsenic (mg/L) | GS-AP-MW-9V | 0.000299 | 0.00006266 | 0.01 | n/a | No | 6 | 0.0002148 | 0.0000717 | 33.33 | Kaplan-Meier | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-12 | 0.2035 | 0.1732 | 2 | n/a | No | 8 | 0.1884 | 0.01428 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-12V | 1.483 | 1.099 | 2 | n/a | No | 8 | 1.291 | 0.1812 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-15 | 0.271 | 0.0913 | 2 | n/a | No | 8 | 0.1597 | 0.06816 | 0 | None | No | 0.004 | NP (normality) |
| Barium (mg/L) | GS-AP-MW-15V | 0.2402 | 0.1438 | 2 | n/a | No | 6 | 0.192 | 0.03506 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-16D | 0.3519 | 0.3221 | 2 | n/a | No | 8 | 0.337 | 0.01409 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-17 | 0.135 | 0.0875 | 2 | n/a | No | 8 | 0.1029 | 0.01879 | 0 | None | No | 0.004 | NP (normality) |
| Barium (mg/L) | GS-AP-MW-19 | 0.3558 | 0.3237 | 2 | n/a | No | 8 | 0.3398 | 0.01514 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-2 | 0.06554 | 0.04941 | 2 | n/a | No | 8 | 0.05748 | 0.007608 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-21 | 0.1561 | 0.105 | 2 | n/a | No | 8 | 0.1306 | 0.02407 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-21V | 0.06585 | 0.03199 | 2 | n/a | No | 6 | 0.04892 | 0.01232 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-3 | 0.59 | 0.492 | 2 | n/a | No | 4 | 0.5423 | 0.05462 | 0 | None | No | 0.0625 | NP (normality) |
| Barium (mg/L) | GS-AP-MW-6D | 0.8133 | 0.4047 | 2 | n/a | No | 8 | 0.609 | 0.1927 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-7 | 0.1416 | 0.06858 | 2 | n/a | No | 8 | 0.1051 | 0.03446 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | GS-AP-MW-9V | 0.2065 | 0.1521 | 2 | n/a | No | 6 | 0.1793 | 0.01981 | 0 | None | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-12 | 0.00102 | 0.00031 | 0.1 | n/a | No | 8 | 0.000844 | 0.0003259 | 75 | None | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-12V | 0.004746 | 0.0005082 | 0.1 | n/a | No | 8 | 0.002508 | 0.002397 | 12.5 | None | sqrt(x) | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-15 | 0.00102 | 0.00048 | 0.1 | n/a | No | 8 | 0.0008741 | 0.0001968 | 50 | None | No | 0.004 | NP (normality) |
| Chromium (mg/L) | GS-AP-MW-15V | 0.005392 | 0.00004034 | 0.1 | n/a | No | 6 | 0.002088 | 0.002595 | 0 | None | sqrt(x) | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-16D | 0.00107 | 0.00025 | 0.1 | n/a | No | 8 | 0.0008102 | 0.0003253 | 50 | None | No | 0.004 | NP (normality) |
| Chromium (mg/L) | GS-AP-MW-17 | 0.0009186 | 0.0002299 | 0.1 | n/a | No | 8 | 0.0009642 | 0.0007192 | 50 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-19 | 0.00102 | 0.000258 | 0.1 | n/a | No | 8 | 0.0007612 | 0.0003595 | 62.5 | Kaplan-Meier | No | 0.004 | NP (NDs) |
| Chromium (mg/L) | GS-AP-MW-2 | 0.00102 | 0.00044 | 0.1 | n/a | No | 8 | 0.000793 | 0.000273 | 50 | None | No | 0.004 | NP (normality) |
| Chromium (mg/L) | GS-AP-MW-21 | 0.00102 | 0.0004 | 0.1 | n/a | No | 8 | 0.000804 | 0.0002693 | 50 | None | No | 0.004 | NP (normality) |
| Chromium (mg/L) | GS-AP-MW-21V | 0.001028 | -0.00002224 | 0.1 | n/a | No | 6 | 0.000731 | 0.0004536 | 33.33 | Kaplan-Meier | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-3 | 0.0003622 | 0.0002283 | 0.1 | n/a | No | 4 | 0.0002953 | 0.0000295 | 0 | None | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-6D | 0.00102 | 0.00024 | 0.1 | n/a | No | 8 | 0.0006406 | 0.000406 | 50 | None | No | 0.004 | NP (normality) |
| Chromium (mg/L) | GS-AP-MW-7 | 0.005833 | 0.0008019 | 0.1 | n/a | No | 8 | 0.003317 | 0.002373 | 12.5 | None | No | 0.01 | Param. |
| Chromium (mg/L) | GS-AP-MW-9V | 0.00102 | 0.000228 | 0.1 | n/a | No | 6 | 0.0006502 | 0.0004063 | 50 | None | No | 0.0155 | NP (normality) |
| Cobalt (mg/L) | GS-AP-MW-12V | 0.00277 | 0.00013 | 0.006 | n/a | No | 8 | 0.000679 | 0.000927 | 50 | None | No | 0.004 | NP (normality) |
| Cobalt (mg/L) | GS-AP-MW-15 | 0.000203 | 0.00009 | 0.006 | n/a | No | 8 | 0.0001889 | 0.00003995 | 87.5 | None | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-16D | 0.000252 | 0.00009 | 0.006 | n/a | No | 8 | 0.000195 | 0.00004576 | 75 | None | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-17 | 0.000203 | 0.000102 | 0.006 | n/a | No | 8 | 0.0001904 | 0.00003571 | 87.5 | None | No | 0.004 | NP (NDs) |
| Cobalt (mg/L) | GS-AP-MW-7 | 0.003527 | 0.0001588 | 0.006 | n/a | No | 8 | 0.001843 | 0.001589 | 12.5 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-12 | 0.9811 | 0.4074 | 5 | n/a | No | 8 | 0.6943 | 0.2706 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-12V | 1.317 | 0.561 | 5 | n/a | No | 8 | 0.9391 | 0.3567 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-15 | 1.031 | 0.162 | 5 | n/a | No | 8 | 0.5966 | 0.41 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-15V | 1.034 | 0.3055 | 5 | n/a | No | 6 | 0.6697 | 0.2651 | 0 | None | No | 0.01 | Param. |

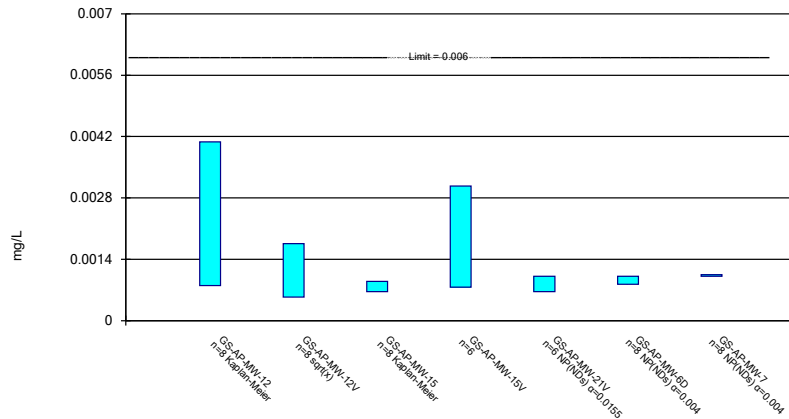
Confidence Intervals - All Results

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond Printed 10/4/2022, 11:58 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|--------------------|---------------|---------------|---------------|--------------|------------|----------|---------------|----------------|----------|--------------|-----------|-------------|----------------|
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-16D | 0.8631 | 0.1174 | 5 | n/a | No | 8 | 0.4903 | 0.3518 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-17 | 1.456 | 0.05281 | 5 | n/a | No | 8 | 0.7018 | 0.8112 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-19 | 1.561 | 0.406 | 5 | n/a | No | 8 | 0.9834 | 0.5447 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-2 | 4 | 0.21 | 5 | n/a | No | 8 | 0.8843 | 1.27 | 0 | None | No | 0.004 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-21 | 0.8384 | 0.3311 | 5 | n/a | No | 8 | 0.5848 | 0.2393 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-21V | 0.9904 | 0.3826 | 5 | n/a | No | 6 | 0.6865 | 0.2212 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-3 | 1.226 | -0.03466 | 5 | n/a | No | 4 | 0.5958 | 0.2777 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-6D | 0.9825 | 0.3857 | 5 | n/a | No | 8 | 0.6841 | 0.2815 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-7 | 1.399 | 0.3877 | 5 | n/a | No | 8 | 0.8934 | 0.477 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | GS-AP-MW-9V | 1.037 | -0.06831 | 5 | n/a | No | 6 | 0.4842 | 0.4022 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-12 | 0.1661 | 0.1042 | 4 | n/a | No | 8 | 0.1352 | 0.02918 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-12V | 0.1945 | 0.158 | 4 | n/a | No | 8 | 0.1763 | 0.01723 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-15 | 0.6417 | 0.3878 | 4 | n/a | No | 8 | 0.5148 | 0.1197 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-15V | 0.365 | 0.1804 | 4 | n/a | No | 6 | 0.2727 | 0.06719 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-16D | 0.1441 | 0.1033 | 4 | n/a | No | 8 | 0.1234 | 0.02127 | 0 | None | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-17 | 0.3425 | 0.2288 | 4 | n/a | No | 8 | 0.2856 | 0.05364 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-19 | 0.3315 | 0.2523 | 4 | n/a | No | 8 | 0.2919 | 0.03735 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-2 | 0.9146 | 0.7806 | 4 | n/a | No | 8 | 0.8476 | 0.0632 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-21 | 0.2492 | 0.1826 | 4 | n/a | No | 8 | 0.2159 | 0.03139 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-21V | 0.6164 | 0.3486 | 4 | n/a | No | 6 | 0.4825 | 0.0975 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-3 | 0.102 | 0.0625 | 4 | n/a | No | 4 | 0.08175 | 0.02224 | 50 | None | No | 0.0625 | NP (normality) |
| Fluoride (mg/L) | GS-AP-MW-6D | 0.1464 | 0.1088 | 4 | n/a | No | 8 | 0.1276 | 0.01774 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-7 | 0.1224 | 0.09278 | 4 | n/a | No | 8 | 0.1076 | 0.01398 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | GS-AP-MW-9V | 0.1887 | 0.16 | 4 | n/a | No | 6 | 0.1743 | 0.01046 | 0 | None | No | 0.01 | Param. |
| Lead (mg/L) | GS-AP-MW-12V | 0.00279 | 0.00019 | 0.015 | n/a | No | 8 | 0.0008461 | 0.0009333 | 37.5 | None | No | 0.004 | NP (normality) |
| Lead (mg/L) | GS-AP-MW-15 | 0.000203 | 0.00008 | 0.015 | n/a | No | 8 | 0.0001732 | 0.00005526 | 75 | None | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-16D | 0.000873 | 0.00016 | 0.015 | n/a | No | 8 | 0.0002814 | 0.0002395 | 75 | None | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-17 | 0.000203 | 0.000175 | 0.015 | n/a | No | 8 | 0.0001995 | 0.00009899 | 87.5 | None | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-6D | 0.000203 | 0.000171 | 0.015 | n/a | No | 8 | 0.000199 | 0.00001131 | 87.5 | None | No | 0.004 | NP (NDs) |
| Lead (mg/L) | GS-AP-MW-7 | 0.003118 | 0.0003653 | 0.015 | n/a | No | 8 | 0.001742 | 0.001299 | 12.5 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-12 | 0.0631 | 0.0249 | 0.0809 | n/a | No | 8 | 0.03593 | 0.0141 | 0 | None | No | 0.004 | NP (normality) |
| Lithium (mg/L) | GS-AP-MW-12V | 0.05243 | 0.03057 | 0.0809 | n/a | No | 8 | 0.0415 | 0.01031 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-15 | 0.5427 | 0.2753 | 0.0809 | n/a | Yes | 8 | 0.409 | 0.1262 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-15V | 0.1812 | 0.0665 | 0.0809 | n/a | No | 6 | 0.1199 | 0.04582 | 0 | None | sqrt(x) | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-16D | 0.03646 | 0.03302 | 0.0809 | n/a | No | 8 | 0.03474 | 0.001621 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-17 | 0.06643 | 0.05759 | 0.0809 | n/a | No | 8 | 0.06201 | 0.00417 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-19 | 0.04394 | 0.03165 | 0.0809 | n/a | No | 8 | 0.03785 | 0.006209 | 0 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-2 | 0.04572 | 0.03596 | 0.0809 | n/a | No | 8 | 0.04084 | 0.004604 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21 | 0.3299 | 0.1162 | 0.0809 | n/a | Yes | 8 | 0.2231 | 0.1008 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-21V | 0.1559 | 0.04994 | 0.0809 | n/a | No | 6 | 0.1029 | 0.03855 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-3 | 0.1137 | 0.0516 | 0.0809 | n/a | No | 4 | 0.08268 | 0.01369 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-6D | 0.3311 | 0.2714 | 0.0809 | n/a | Yes | 8 | 0.3013 | 0.0282 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-7 | 0.2109 | 0.1488 | 0.0809 | n/a | Yes | 8 | 0.1799 | 0.02929 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | GS-AP-MW-9V | 0.03109 | 0.02871 | 0.0809 | n/a | No | 6 | 0.0299 | 0.0008649 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-12 | 0.009401 | 0.004536 | 0.1 | n/a | No | 8 | 0.00661 | 0.002496 | 25 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-12V | 0.006133 | 0.001371 | 0.1 | n/a | No | 8 | 0.003658 | 0.002624 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-15 | 0.07173 | 0.04351 | 0.1 | n/a | No | 8 | 0.05699 | 0.01728 | 0 | None | x^3 | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-15V | 0.0538 | 0.0272 | 0.1 | n/a | No | 6 | 0.03775 | 0.01196 | 0 | None | No | 0.0155 | NP (normality) |
| Molybdenum (mg/L) | GS-AP-MW-16D | 0.005 | 0.00014 | 0.1 | n/a | No | 8 | 0.002767 | 0.0024 | 50 | None | No | 0.004 | NP (normality) |
| Molybdenum (mg/L) | GS-AP-MW-17 | 0.008342 | 0.001451 | 0.1 | n/a | No | 8 | 0.004896 | 0.003251 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-19 | 0.006542 | 0.002851 | 0.1 | n/a | No | 8 | 0.004696 | 0.001741 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-2 | 0.005443 | 0.001553 | 0.1 | n/a | No | 8 | 0.003433 | 0.002083 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-21 | 0.08402 | 0.01394 | 0.1 | n/a | No | 8 | 0.04898 | 0.03306 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-21V | 0.1309 | 0.0383 | 0.1 | n/a | No | 6 | 0.08458 | 0.03369 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-3 | 0.01371 | 0.003731 | 0.1 | n/a | No | 4 | 0.008723 | 0.002199 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-6D | 0.01102 | 0.007972 | 0.1 | n/a | No | 8 | 0.009498 | 0.001439 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-7 | 0.2181 | 0.1856 | 0.1 | n/a | Yes | 8 | 0.2019 | 0.01533 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | GS-AP-MW-9V | 0.002837 | 0.0006068 | 0.1 | n/a | No | 6 | 0.002815 | 0.001842 | 33.33 | Kaplan-Meier | No | 0.01 | Param. |

Parametric and Non-Parametric (NP) Confidence Interval

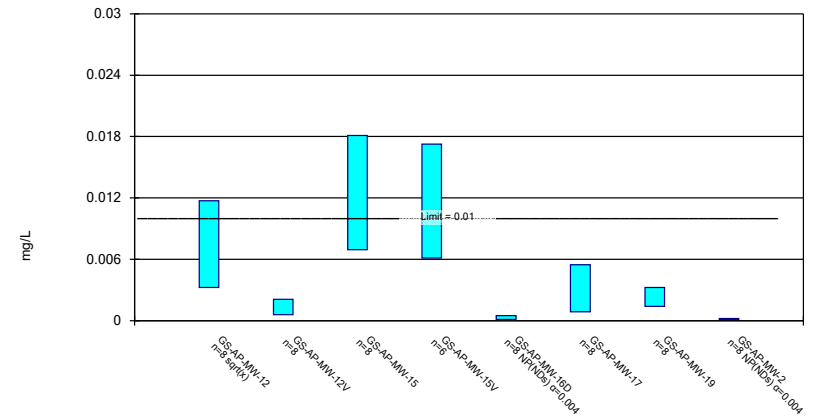
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 10/4/2022 11:56 AM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

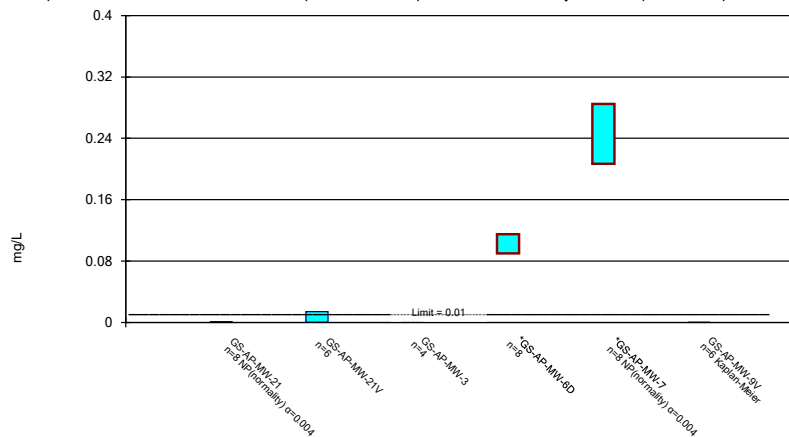
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

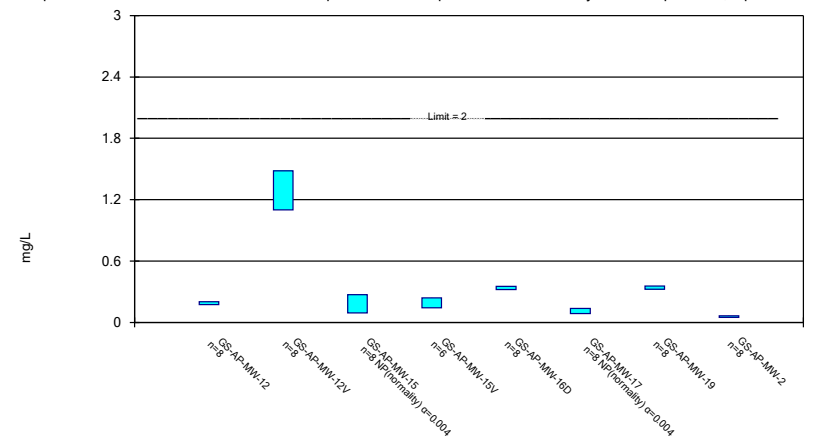
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

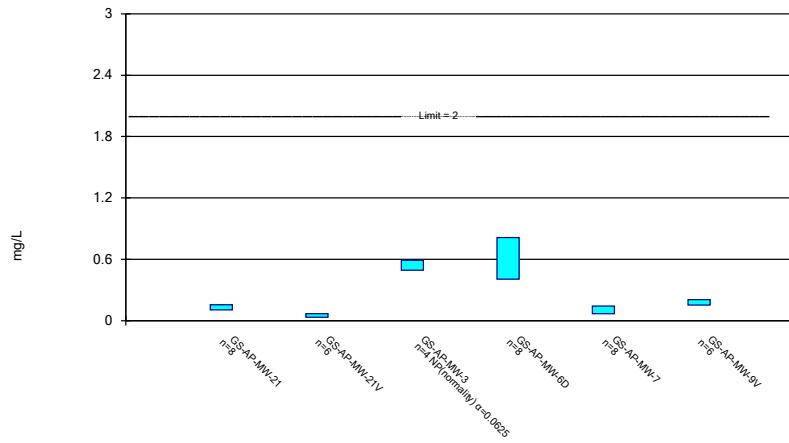
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
 Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

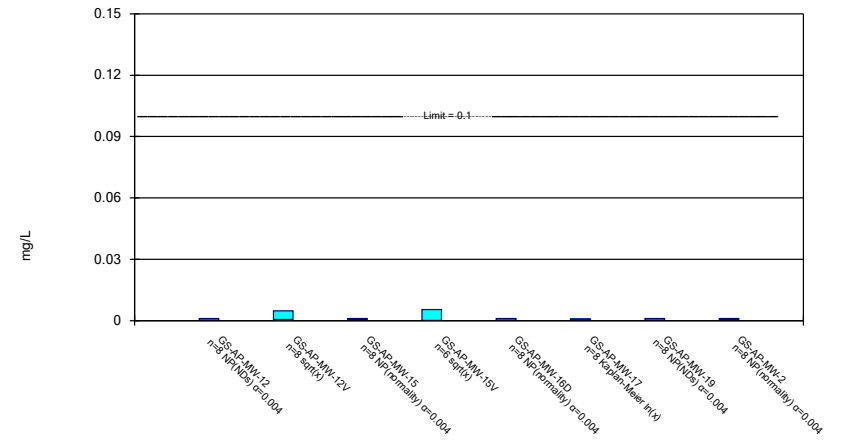
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

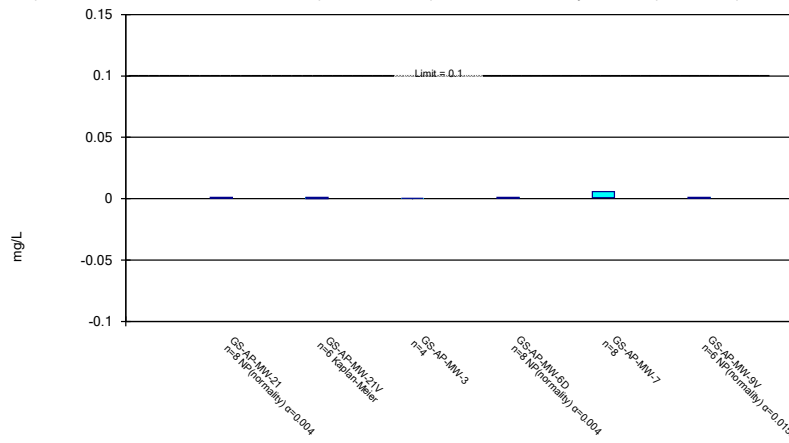
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

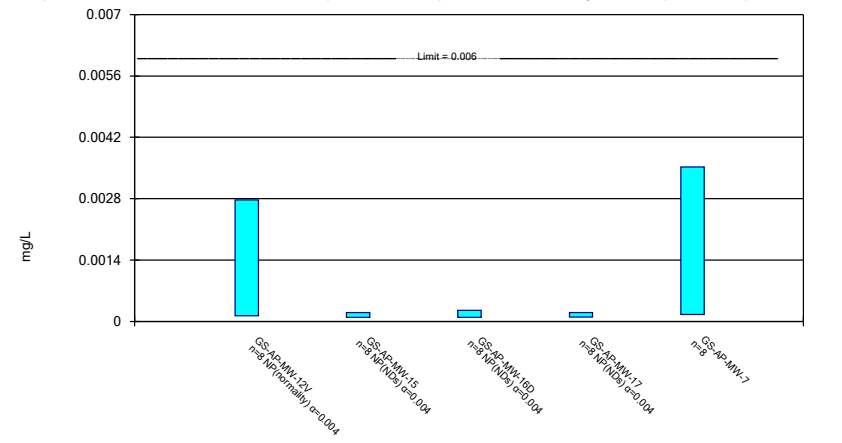
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

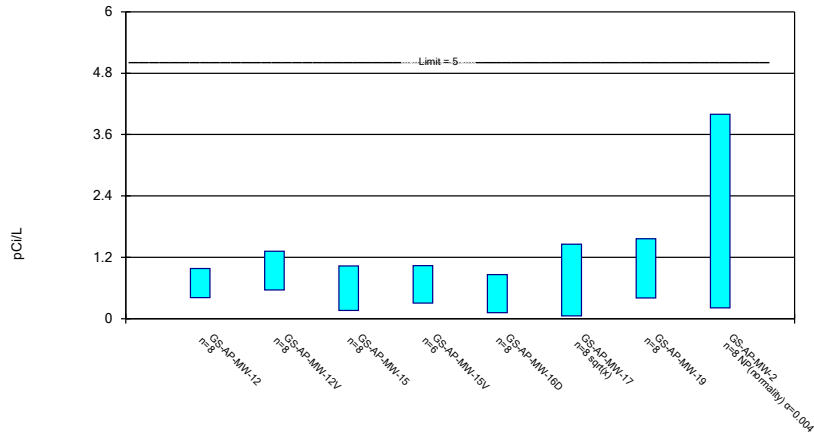
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

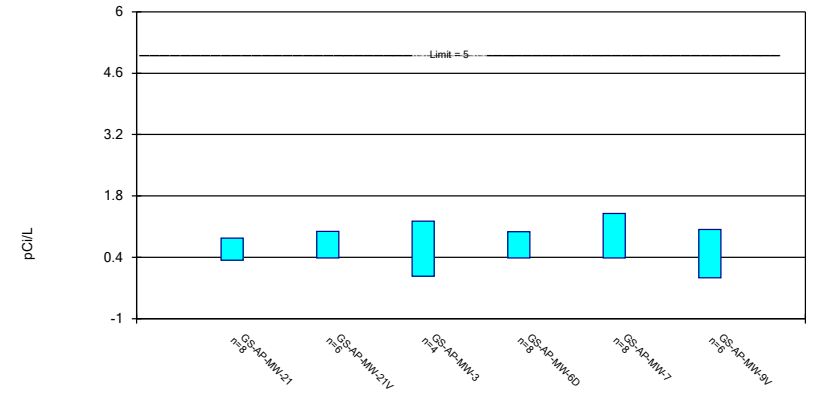
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric Confidence Interval

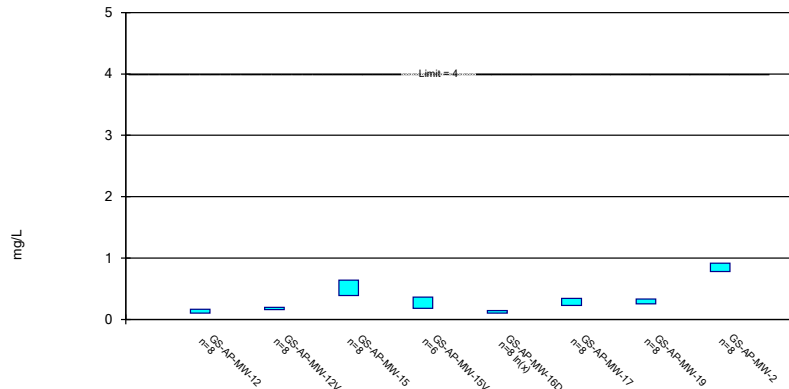
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric Confidence Interval

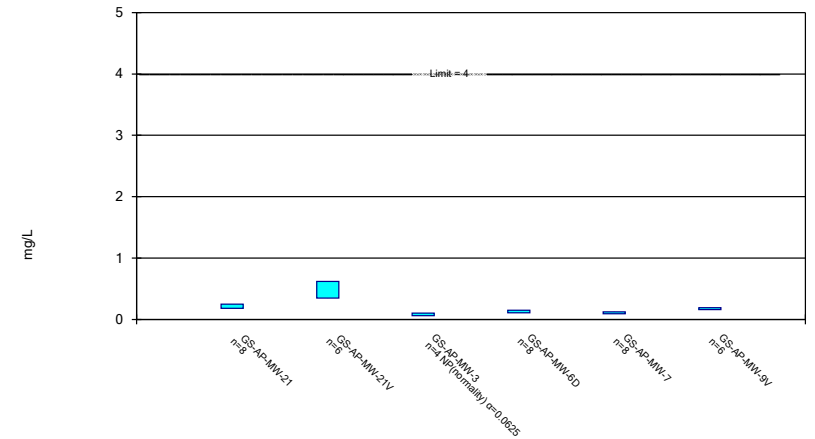
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

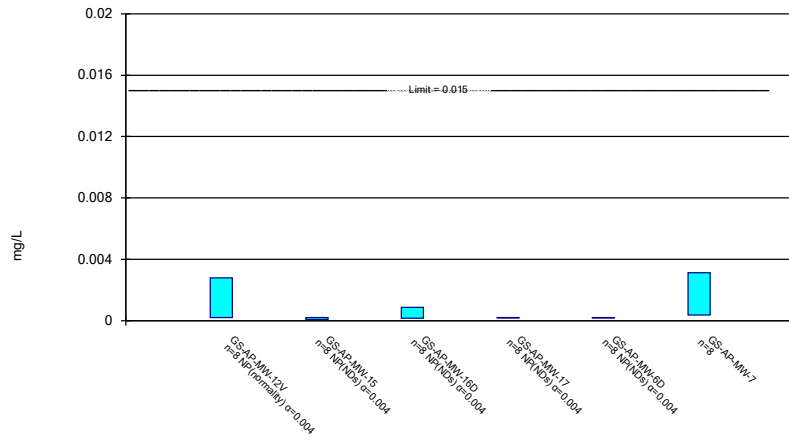
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

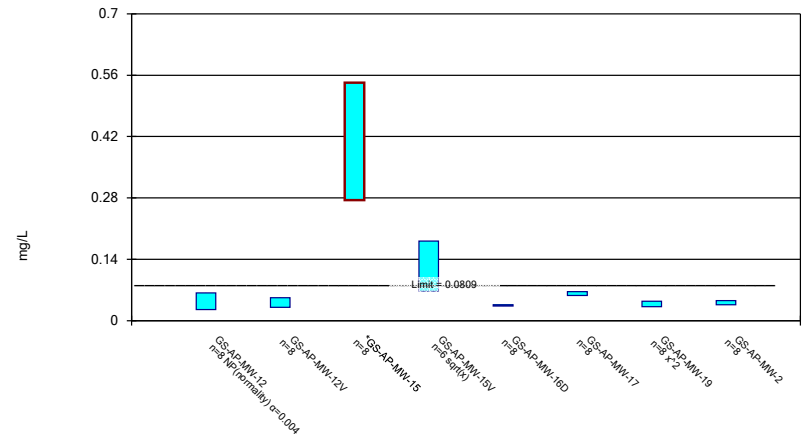
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

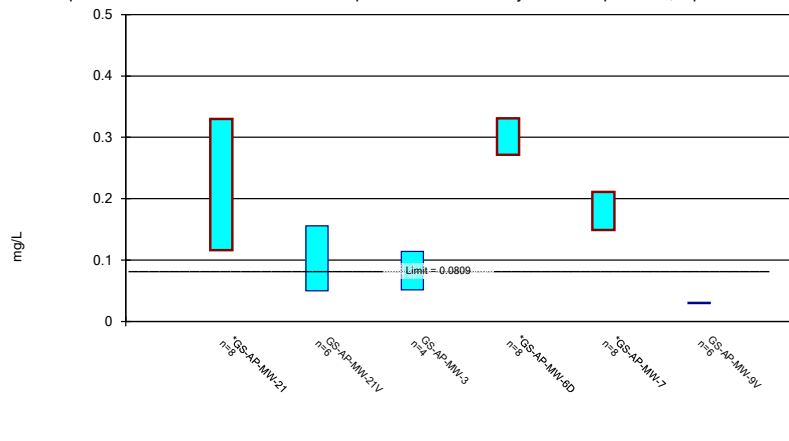
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric Confidence Interval

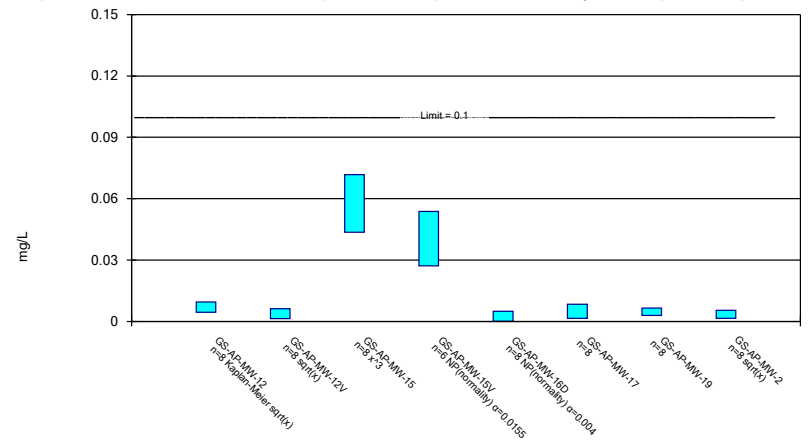
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

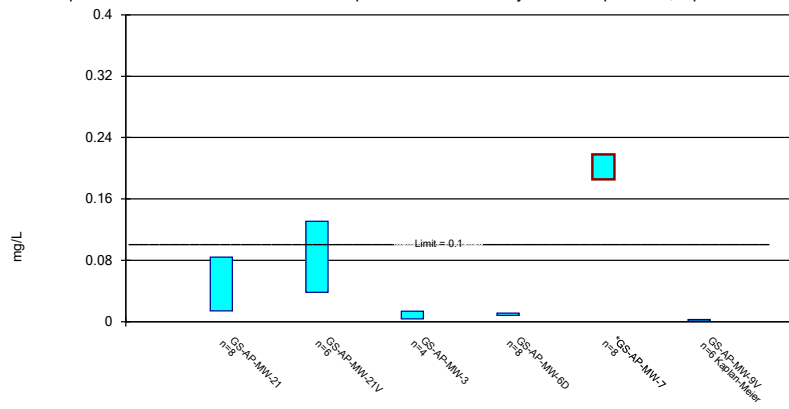
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/4/2022 11:57 AM View: Appendix IV - Confidence Intervals
Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-21V | GS-AP-MW-6D | GS-AP-MW-7 |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| 2/21/2019 | | 0.000841 (J) | | | | | |
| 4/16/2019 | <0.001015 | | | | | 0.000828 (J) | |
| 4/17/2019 | | | <0.001015 | | | | |
| 4/23/2019 | | | | | | | 0.00105 (J) |
| 9/23/2019 | | | | | | <0.001015 | |
| 9/24/2019 | | | <0.001015 | | | | <0.001015 |
| 9/25/2019 | <0.001015 | 0.0025 (J) | | | | | |
| 3/17/2020 | | | | | | <0.001015 | <0.001015 |
| 3/18/2020 | 0.0022 (J) | | 0.000976 (J) | 0.0028 (J) | | | |
| 3/23/2020 | | | | | 0.000831 (J) | | |
| 3/24/2020 | | 0.00128 (J) | | | | | |
| 9/16/2020 | | | | | | | <0.001015 |
| 9/17/2020 | | | | | | <0.001015 | |
| 9/21/2020 | | | | 0.0028 (J) | | | |
| 9/23/2020 | 0.00202 (J) | 0.00152 (J) | 0.000844 (J) | | <0.001015 | | |
| 2/1/2021 | 0.000518 (J) | 0.000861 (J) | | | | | |
| 2/2/2021 | | | | | | | <0.001015 |
| 2/3/2021 | | | | | | <0.001015 | |
| 2/9/2021 | | | 0.00075 (J) | 0.00237 | 0.000661 (J) | | |
| 7/27/2021 | | | | | | <0.001015 | |
| 8/3/2021 | | | 0.00065 (J) | 0.00097 (J) | | | |
| 8/9/2021 | 0.00179 | 0.00089 (J) | | | | | <0.001015 |
| 8/11/2021 | | | | | <0.001015 | | |
| 2/8/2022 | | | | | <0.001015 | | <0.001015 |
| 2/14/2022 | | | | | | <0.001015 | |
| 2/16/2022 | | | 0.00078 (J) | 0.00113 | | | |
| 2/23/2022 | | 0.00055 (J) | | | | | |
| 2/28/2022 | 0.00415 | | | | | | |
| 7/19/2022 | 0.00556 | | | | | | |
| 7/20/2022 | | 0.000577 (J) | | | | | |
| 7/25/2022 | | | | | | <0.001015 | <0.001015 |
| 8/2/2022 | | | 0.000663 (J) | 0.00143 | | | |
| 8/9/2022 | | | | | <0.001015 | | |
| Mean | 0.002284 | 0.001127 | 0.0008366 | 0.001917 | 0.0009253 | 0.0009916 | 0.001019 |
| Std. Dev. | 0.001727 | 0.0006444 | 0.0001506 | 0.0008388 | 0.000149 | 6.611E-05 | 1.237E-05 |
| Upper Lim. | 0.004079 | 0.001754 | 0.0008948 | 0.003069 | 0.001015 | 0.001015 | 0.00105 |
| Lower Lim. | 0.0007964 | 0.0005393 | 0.0006595 | 0.0007644 | 0.000661 | 0.000828 | 0.001015 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|
| 2/21/2019 | | <0.000203 | | | | | | |
| 4/16/2019 | 0.014 | | | | | | | |
| 4/17/2019 | | | 0.00633 | | <0.000203 | | 0.00302 (J) | |
| 9/23/2019 | | | | | | 0.00631 | | |
| 9/24/2019 | | | 0.011 | | <0.000203 | | 0.00289 (J) | |
| 9/25/2019 | 0.0135 | 0.00129 (J) | | | | | | <0.000203 |
| 3/16/2020 | | | | | | 0.00268 (J) | | |
| 3/18/2020 | 0.00693 | | 0.0217 | 0.011 | | | | |
| 3/24/2020 | | 0.00266 (J) | | | <0.000203 | | 0.00313 (J) | |
| 3/25/2020 | | | | | | | | <0.000203 |
| 5/12/2020 | | | | | | 0.00326 (J) | | |
| 5/13/2020 | | | | | | | | <0.000203 |
| 9/21/2020 | | | | 0.0167 | | 0.0055 | | |
| 9/22/2020 | | | | | <0.000203 | | 0.00313 (J) | <0.000203 |
| 9/23/2020 | 0.00616 | 0.00176 (J) | 0.0165 | | | | | |
| 2/1/2021 | 0.00747 | 0.00154 | | | | | | <0.000203 |
| 2/2/2021 | | | | | | 0.00478 | | |
| 2/8/2021 | | | | | | | 0.00178 | |
| 2/9/2021 | | | 0.0145 | 0.0165 | | | | |
| 2/10/2021 | | | | | 0.000491 | | | |
| 8/3/2021 | | | 0.0139 | 0.0105 | | 0.00086 | | |
| 8/4/2021 | | | | | | | | <0.000203 |
| 8/9/2021 | 0.00308 | 0.00112 | | | 0.0001 (J) | | | |
| 8/10/2021 | | | | | | | 0.00133 | |
| 2/14/2022 | | | | | | 0.00112 | | |
| 2/15/2022 | | | | | 0.00012 (J) | | | |
| 2/16/2022 | | | 0.00592 | 0.0081 | | | | |
| 2/22/2022 | | | | | | | 0.00098 | <0.000203 |
| 2/23/2022 | | 0.00102 | | | | | | |
| 2/28/2022 | 0.00343 | | | | | | | |
| 7/19/2022 | 0.00407 | | | | | | | 8.3E-05 (J) |
| 7/20/2022 | | 0.00102 | | | | | | |
| 8/2/2022 | | | 0.0104 | 0.00733 | <0.000203 | | | |
| 8/3/2022 | | | | | | | 0.00223 | |
| 8/8/2022 | | | | | | 0.000878 | | |
| Mean | 0.00733 | 0.001327 | 0.01253 | 0.01169 | 0.0002158 | 0.003174 | 0.002311 | 0.000188 |
| Std. Dev. | 0.004276 | 0.0007077 | 0.005273 | 0.00405 | 0.000119 | 0.002169 | 0.000862 | 4.243E-05 |
| Upper Lim. | 0.01171 | 0.002077 | 0.01812 | 0.01725 | 0.000491 | 0.005472 | 0.003225 | 0.000203 |
| Lower Lim. | 0.003239 | 0.0005765 | 0.006942 | 0.006124 | 0.0001 | 0.0008749 | 0.001398 | 8.3E-05 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-3 | GS-AP-MW-6D | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|--------------|-------------|------------|--------------|
| 4/16/2019 | | | | 0.088 | | |
| 4/17/2019 | <0.000203 | | | | | |
| 4/23/2019 | | | | | 0.207 | |
| 9/23/2019 | | | | 0.0876 | | |
| 9/24/2019 | <0.000203 | | | | 0.233 | |
| 3/17/2020 | | | | 0.105 | 0.285 | |
| 3/18/2020 | <0.000203 | | | | | |
| 3/23/2020 | | 0.0159 | | | | <0.000203 |
| 9/16/2020 | | | | | 0.282 | |
| 9/17/2020 | | | | 0.0931 | | |
| 9/22/2020 | | | | | | <0.000203 |
| 9/23/2020 | <0.000203 | 0.01 | | | | |
| 2/2/2021 | | | | | 0.275 | 0.000101 (J) |
| 2/3/2021 | | | | 0.104 | | |
| 2/8/2021 | 0.000624 | | | | | |
| 2/9/2021 | | 0.0063 | | | | |
| 2/17/2021 | | | 0.000168 (J) | | | |
| 7/27/2021 | | | | 0.107 | | |
| 8/3/2021 | | | 0.00014 (J) | | | |
| 8/4/2021 | 0.00054 | | | | | |
| 8/9/2021 | | | | | 0.282 | |
| 8/10/2021 | | | | | | 0.00032 |
| 8/11/2021 | | 0.00161 | | | | |
| 2/8/2022 | 0.00046 | 0.00551 | | | 0.281 | |
| 2/14/2022 | | | | 0.12 | | |
| 2/16/2022 | | | 0.0002 (J) | | | |
| 2/21/2022 | | | | | | 0.00021 |
| 7/19/2022 | | | | | | 0.000252 |
| 7/20/2022 | | | 0.000137 (J) | | | |
| 7/25/2022 | | | | 0.114 | 0.272 | |
| 8/9/2022 | | 0.00345 | | | | |
| 8/10/2022 | 0.000495 | | | | | |
| Mean | 0.0003664 | 0.007128 | 0.0001613 | 0.1023 | 0.2646 | 0.0002148 |
| Std. Dev. | 0.0001807 | 0.005147 | 2.936E-05 | 0.01188 | 0.02871 | 7.17E-05 |
| Upper Lim. | 0.000624 | 0.0142 | 0.0002279 | 0.1149 | 0.285 | 0.000299 |
| Lower Lim. | 0.000203 | 5.729E-05 | 9.458E-05 | 0.08975 | 0.207 | 6.266E-05 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|------------|
| 2/21/2019 | | 1.35 | | | | | | |
| 4/16/2019 | 0.161 | | | | | | | |
| 4/17/2019 | | | 0.264 | | 0.322 | | 0.316 | |
| 9/23/2019 | | | | | | 0.135 | | |
| 9/24/2019 | | | 0.0913 | | 0.342 | | 0.356 | |
| 9/25/2019 | 0.202 | 1.06 | | | | | | 0.065 |
| 3/16/2020 | | | | | | 0.0883 | | |
| 3/18/2020 | 0.195 | | 0.14 | 0.155 | | | | |
| 3/24/2020 | | 1.43 | | | 0.323 | | 0.324 | |
| 3/25/2020 | | | | | | | | 0.0602 |
| 5/12/2020 | | | | | | 0.0941 | | |
| 5/13/2020 | | | | | | | | 0.0528 |
| 9/21/2020 | | | | 0.18 | | 0.128 | | |
| 9/22/2020 | | | | | 0.342 | | 0.337 | 0.0563 |
| 9/23/2020 | 0.193 | 1.27 | 0.119 | | | | | |
| 2/1/2021 | 0.201 | 1.6 | | | | | | 0.0578 |
| 2/2/2021 | | | | | | 0.107 | | |
| 2/8/2021 | | | | | | | 0.36 | |
| 2/9/2021 | | | 0.132 | 0.2 | | | | |
| 2/10/2021 | | | | | 0.356 | | | |
| 8/3/2021 | | | 0.129 | 0.164 | | 0.0889 | | |
| 8/4/2021 | | | | | | | | 0.0702 |
| 8/9/2021 | 0.194 | 1.07 | | | 0.334 | | | |
| 8/10/2021 | | | | | | | 0.343 | |
| 2/14/2022 | | | | | | 0.0945 | | |
| 2/15/2022 | | | | | 0.322 | | | |
| 2/16/2022 | | | 0.271 | 0.2 | | | | |
| 2/22/2022 | | | | | | | 0.334 | 0.0501 |
| 2/23/2022 | | 1.34 | | | | | | |
| 2/28/2022 | 0.173 | | | | | | | |
| 7/19/2022 | 0.188 | | | | | | | 0.0474 |
| 7/20/2022 | | 1.21 | | | | | | |
| 8/2/2022 | | | 0.131 | 0.253 | 0.355 | | | |
| 8/3/2022 | | | | | | | 0.348 | |
| 8/8/2022 | | | | | | 0.0875 | | |
| Mean | 0.1884 | 1.291 | 0.1597 | 0.192 | 0.337 | 0.1029 | 0.3398 | 0.05748 |
| Std. Dev. | 0.01428 | 0.1812 | 0.06816 | 0.03506 | 0.01409 | 0.01879 | 0.01514 | 0.007608 |
| Upper Lim. | 0.2035 | 1.483 | 0.271 | 0.2402 | 0.3519 | 0.135 | 0.3558 | 0.06554 |
| Lower Lim. | 0.1732 | 1.099 | 0.0913 | 0.1438 | 0.3221 | 0.0875 | 0.3237 | 0.04941 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-3 | GS-AP-MW-6D | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|------------|-------------|------------|-------------|
| 4/16/2019 | | | | 0.879 | | |
| 4/17/2019 | 0.0914 | | | | | |
| 4/23/2019 | | | | | 0.113 | |
| 9/23/2019 | | | | 0.903 | | |
| 9/24/2019 | 0.114 | | | | 0.0834 | |
| 3/17/2020 | | | | 0.638 | 0.174 | |
| 3/18/2020 | 0.105 | | | | | |
| 3/23/2020 | | 0.0574 | | | | 0.215 |
| 9/16/2020 | | | | | 0.124 | |
| 9/17/2020 | | | | 0.378 | | |
| 9/22/2020 | | | | | | 0.187 |
| 9/23/2020 | 0.157 | 0.0438 | | | | |
| 2/2/2021 | | | | | 0.115 | 0.17 |
| 2/3/2021 | | | | 0.443 | | |
| 2/8/2021 | 0.151 | | | | | |
| 2/9/2021 | | 0.028 | | | | |
| 2/17/2021 | | | 0.59 | | | |
| 7/27/2021 | | | | 0.488 | | |
| 8/3/2021 | | | 0.589 | | | |
| 8/4/2021 | 0.148 | | | | | |
| 8/9/2021 | | | | | 0.0891 | |
| 8/10/2021 | | | | | | 0.165 |
| 8/11/2021 | | 0.0535 | | | | |
| 2/8/2022 | 0.143 | 0.0631 | | | 0.0747 | |
| 2/14/2022 | | | | 0.599 | | |
| 2/16/2022 | | | 0.498 | | | |
| 2/21/2022 | | | | | | 0.161 |
| 7/19/2022 | | | | | | 0.178 |
| 7/20/2022 | | | 0.492 | | | |
| 7/25/2022 | | | | 0.544 | 0.0677 | |
| 8/9/2022 | | 0.0477 | | | | |
| 8/10/2022 | 0.135 | | | | | |
| Mean | 0.1306 | 0.04892 | 0.5423 | 0.609 | 0.1051 | 0.1793 |
| Std. Dev. | 0.02407 | 0.01232 | 0.05462 | 0.1927 | 0.03446 | 0.01981 |
| Upper Lim. | 0.1561 | 0.06585 | 0.59 | 0.8133 | 0.1416 | 0.2065 |
| Lower Lim. | 0.105 | 0.03199 | 0.492 | 0.4047 | 0.06858 | 0.1521 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 2/21/2019 | | <0.00102 | | | | | | |
| 4/16/2019 | <0.00102 | | | | | | | |
| 4/17/2019 | | | <0.00102 | | <0.00102 | | <0.00102 | |
| 9/23/2019 | | | | | | <0.00102 | | |
| 9/24/2019 | | | <0.00102 | | <0.00102 | | <0.00102 | |
| 9/25/2019 | <0.00102 | 0.00202 (J) | | | | | | <0.00102 |
| 3/16/2020 | | | | | | <0.00102 | | |
| 3/18/2020 | <0.00102 | | <0.00102 | 0.00716 (J) | | | | |
| 3/24/2020 | | 0.00774 (J) | | | <0.00102 | | <0.00102 | |
| 3/25/2020 | | | | | | | | <0.00102 |
| 5/12/2020 | | | | | | <0.00102 | | |
| 5/13/2020 | | | | | | | | <0.00102 |
| 9/21/2020 | | | | 0.00239 (J) | | <0.00102 | | |
| 9/22/2020 | | | | | <0.00102 | | <0.00102 | <0.00102 |
| 9/23/2020 | <0.00102 | 0.00362 (J) | <0.00102 | | | | | |
| 2/1/2021 | <0.00102 | 0.00311 | | | | | | 0.000505 (J) |
| 2/2/2021 | | | | | | 0.00255 | | |
| 2/8/2021 | | | | | | | 0.000258 (J) | |
| 2/9/2021 | | | 0.00072 (J) | 0.00142 | | | | |
| 2/10/2021 | | | | | 0.00107 | | | |
| 8/3/2021 | | | 0.0008 (J) | 0.00051 (J) | | 0.00041 (J) | | |
| 8/4/2021 | | | | | | | | 0.00085 (J) |
| 8/9/2021 | 0.00031 (J) | 0.00146 | | | 0.00068 (J) | | | |
| 8/10/2021 | | | | | | | 0.00032 (J) | |
| 2/14/2022 | | | | | | 0.00034 (J) | | |
| 2/15/2022 | | | | | 0.00025 (J) | | | |
| 2/16/2022 | | | 0.00048 (J) | 0.00062 (J) | | | | |
| 2/22/2022 | | | | | | | <0.00102 | 0.00044 (J) |
| 2/23/2022 | | 0.00061 (J) | | | | | | |
| 2/28/2022 | <0.00102 | | | | | | | |
| 7/19/2022 | 0.000322 (J) | | | | | | | 0.000469 (J) |
| 7/20/2022 | | 0.000485 (J) | | | | | | |
| 8/2/2022 | | | 0.000913 (J) | 0.000427 (J) | 0.000402 (J) | | | |
| 8/3/2022 | | | | | | | 0.000412 (J) | |
| 8/8/2022 | | | | | | 0.000334 (J) | | |
| Mean | 0.000844 | 0.002508 | 0.0008741 | 0.002088 | 0.0008102 | 0.0009642 | 0.0007612 | 0.000793 |
| Std. Dev. | 0.0003259 | 0.002397 | 0.0001968 | 0.002595 | 0.0003253 | 0.0007192 | 0.0003595 | 0.000273 |
| Upper Lim. | 0.00102 | 0.004746 | 0.00102 | 0.005392 | 0.00107 | 0.0009186 | 0.00102 | 0.00102 |
| Lower Lim. | 0.00031 | 0.0005082 | 0.00048 | 4.034E-05 | 0.00025 | 0.0002299 | 0.000258 | 0.00044 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-3 | GS-AP-MW-6D | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|--------------|--------------|--------------|--------------|-------------|--------------|
| 4/16/2019 | | | | <0.00102 | | |
| 4/17/2019 | <0.00102 | | | | | |
| 4/23/2019 | | | | | 0.00435 (J) | |
| 9/23/2019 | | | | <0.00102 | | |
| 9/24/2019 | <0.00102 | | | | <0.00102 | |
| 3/17/2020 | | | | <0.00102 | 0.0076 (J) | |
| 3/18/2020 | <0.00102 | | | | | |
| 3/23/2020 | | <0.00102 | | | | <0.00102 |
| 9/16/2020 | | | | | 0.00482 (J) | |
| 9/17/2020 | | | | <0.00102 | | |
| 9/22/2020 | | | | | | <0.00102 |
| 9/23/2020 | <0.00102 | <0.00102 | | | | |
| 2/2/2021 | | | | | 0.00435 | 0.000228 (J) |
| 2/3/2021 | | | | 0.000264 (J) | | |
| 2/8/2021 | 0.000705 (J) | | | | | |
| 2/9/2021 | | 0.000218 (J) | | | | |
| 2/17/2021 | | | 0.000326 (J) | | | |
| 7/27/2021 | | | | 0.00024 (J) | | |
| 8/3/2021 | | | 0.00027 (J) | | | |
| 8/4/2021 | 0.00042 (J) | | | | | |
| 8/9/2021 | | | | | 0.00234 | |
| 8/10/2021 | | | | | | 0.00029 (J) |
| 8/11/2021 | | 0.00134 | | | | |
| 2/8/2022 | 0.0004 (J) | 0.00041 (J) | | | 0.00103 | |
| 2/14/2022 | | | | 0.00024 (J) | | |
| 2/16/2022 | | | 0.00027 (J) | | | |
| 2/21/2022 | | | | | | <0.00102 |
| 7/19/2022 | | | | | | 0.000323 (J) |
| 7/20/2022 | | | 0.000315 (J) | | | |
| 7/25/2022 | | | | 0.000301 (J) | 0.00103 | |
| 8/9/2022 | | 0.000378 (J) | | | | |
| 8/10/2022 | 0.000827 (J) | | | | | |
| Mean | 0.000804 | 0.000731 | 0.0002953 | 0.0006406 | 0.003317 | 0.0006502 |
| Std. Dev. | 0.0002693 | 0.0004536 | 2.95E-05 | 0.000406 | 0.002373 | 0.0004063 |
| Upper Lim. | 0.00102 | 0.001028 | 0.0003622 | 0.00102 | 0.005833 | 0.00102 |
| Lower Lim. | 0.0004 | -2.224E-05 | 0.0002283 | 0.00024 | 0.0008019 | 0.000228 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-7 |
|------------|--------------|-------------|--------------|--------------|-------------|
| 2/21/2019 | <0.000203 | | | | |
| 4/17/2019 | | <0.000203 | <0.000203 | | |
| 4/23/2019 | | | | | 0.00231 (J) |
| 9/23/2019 | | | | <0.000203 | |
| 9/24/2019 | | <0.000203 | <0.000203 | | <0.000203 |
| 9/25/2019 | <0.000203 | | | | |
| 3/16/2020 | | | | <0.000203 | |
| 3/17/2020 | | | | | 0.00476 (J) |
| 3/18/2020 | | <0.000203 | | | |
| 3/24/2020 | 0.00277 (J) | | <0.000203 | | |
| 5/12/2020 | | | | <0.000203 | |
| 9/16/2020 | | | | | 0.00301 (J) |
| 9/21/2020 | | | | <0.000203 | |
| 9/22/2020 | | | <0.000203 | | |
| 9/23/2020 | <0.000203 | <0.000203 | | | |
| 2/1/2021 | 0.00129 | | | | |
| 2/2/2021 | | | | 0.000102 (J) | 0.00248 |
| 2/9/2021 | | <0.000203 | | | |
| 2/10/2021 | | | 0.000252 | | |
| 8/3/2021 | | 9E-05 (J) | | <0.000203 | |
| 8/9/2021 | 0.00043 | | 9E-05 (J) | | 0.0011 |
| 2/8/2022 | | | | | 0.00051 |
| 2/14/2022 | | | | <0.000203 | |
| 2/15/2022 | | | <0.000203 | | |
| 2/16/2022 | | <0.000203 | | | |
| 2/23/2022 | 0.00013 (J) | | | | |
| 7/20/2022 | <0.000203 | | | | |
| 7/25/2022 | | | | | 0.000372 |
| 8/2/2022 | | <0.000203 | <0.000203 | | |
| 8/8/2022 | | | | <0.000203 | |
| Mean | 0.000679 | 0.0001889 | 0.000195 | 0.0001904 | 0.001843 |
| Std. Dev. | 0.000927 | 3.995E-05 | 4.576E-05 | 3.571E-05 | 0.001589 |
| Upper Lim. | 0.00277 | 0.000203 | 0.000252 | 0.000203 | 0.003527 |
| Lower Lim. | 0.00013 | 9E-05 | 9E-05 | 0.000102 | 0.0001588 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|------------|
| 2/21/2019 | | 0.296 (U) | | | | | | |
| 4/16/2019 | 0.184 (U) | | | | | | | |
| 4/17/2019 | | | -0.11 (U) | | 0.121 (U) | | 0.507 (U) | |
| 9/23/2019 | | | | | | 0.983 | | |
| 9/24/2019 | | | 0.951 | | -0.033 (U) | | 0.664 | |
| 9/25/2019 | 0.442 (U) | 1.03 | | | | | | 0.537 (U) |
| 3/16/2020 | | | | | | 0.185 (U) | | |
| 3/18/2020 | 0.605 | | 0.939 | 0.566 (U) | | | | |
| 3/24/2020 | | 0.877 (U) | | | 0.636 | | 1.07 | |
| 3/25/2020 | | | | | | | | 4 |
| 5/12/2020 | | | | | | 0.0339 (U) | | |
| 5/13/2020 | | | | | | | | 0.289 (U) |
| 9/21/2020 | | | | 0.494 (U) | | 0.651 (U) | | |
| 9/22/2020 | | | | | 0.59 (U) | | 2.09 | 0.712 |
| 9/23/2020 | 0.811 (U) | 1.38 | 0.547 (U) | | | | | |
| 2/1/2021 | 0.946 (U) | 0.944 (U) | | | | | | 0.518 (U) |
| 2/2/2021 | | | | | | 2.53 | | |
| 2/8/2021 | | | | | | | 0.947 (U) | |
| 2/9/2021 | | | 0.442 (U) | 0.55 (U) | | | | |
| 2/10/2021 | | | | | 0.285 (U) | | | |
| 8/3/2021 | | | 0.65 (U) | 1.13 (U) | | 0.667 (U) | | |
| 8/4/2021 | | | | | | | | 0.502 (U) |
| 8/9/2021 | 0.907 (U) | 1.0895 (UD) | | | 1.07 (U) | | | |
| 8/10/2021 | | | | | | | 1.42 (U) | |
| 2/14/2022 | | | | | | 0.523 (U) | | |
| 2/15/2022 | | | | | 0.557 (U) | | | |
| 2/16/2022 | | | 0.234 (U) | 0.841 (U) | | | | |
| 2/22/2022 | | | | | | | 0.639 (U) | 0.21 (U) |
| 2/23/2022 | | 1.3 | | | | | | |
| 2/28/2022 | 0.725 (U) | | | | | | | |
| 7/19/2022 | 0.934 (U) | | | | | | | 0.306 (U) |
| 7/20/2022 | | 0.596 (U) | | | | | | |
| 8/2/2022 | | | 1.12 | 0.437 (U) | 0.696 (U) | | | |
| 8/3/2022 | | | | | | | 0.53 (U) | |
| 8/8/2022 | | | | | | 0.0413 (U) | | |
| Mean | 0.6943 | 0.9391 | 0.5966 | 0.6697 | 0.4903 | 0.7018 | 0.9834 | 0.8843 |
| Std. Dev. | 0.2706 | 0.3567 | 0.41 | 0.2651 | 0.3518 | 0.8112 | 0.5447 | 1.27 |
| Upper Lim. | 0.9811 | 1.317 | 1.031 | 1.034 | 0.8631 | 1.456 | 1.561 | 4 |
| Lower Lim. | 0.4074 | 0.561 | 0.162 | 0.3055 | 0.1174 | 0.05281 | 0.406 | 0.21 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-3 | GS-AP-MW-6D | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|------------|-------------|------------|-------------|
| 4/16/2019 | | | | 0.528 | | |
| 4/17/2019 | 0.47 (U) | | | | | |
| 4/23/2019 | | | | | 0.894 | |
| 9/23/2019 | | | | 0.677 | | |
| 9/24/2019 | 1.08 | | | | 0.618 (U) | |
| 3/17/2020 | | | | 0.629 | 1.2 | |
| 3/18/2020 | 0.732 | | | | | |
| 3/23/2020 | | 0.982 | | | | 0.156 (U) |
| 9/16/2020 | | | | | 1.74 | |
| 9/17/2020 | | | | 0.32 (U) | | |
| 9/22/2020 | | | | | | 0.536 (U) |
| 9/23/2020 | 0.468 (U) | 0.563 (U) | | | | |
| 2/2/2021 | | | | | 0.373 (U) | 0.154 (U) |
| 2/3/2021 | | | | 0.647 (U) | | |
| 2/8/2021 | 0.667 (U) | | | | | |
| 2/9/2021 | | 0.867 (U) | | | | |
| 2/17/2021 | | | 0.331 (U) | | | |
| 7/27/2021 | | | | 0.919 (U) | | |
| 8/3/2021 | | | 0.978 (U) | | | |
| 8/4/2021 | 0.337 (U) | | | | | |
| 8/9/2021 | | | | | 1.28 (UD) | |
| 8/10/2021 | | | | | | 0.895 (U) |
| 8/11/2021 | | 0.782 (U) | | | | |
| 2/8/2022 | 0.529 (U) | 0.467 (U) | | | 0.587 (UD) | |
| 2/14/2022 | | | | 1.24 | | |
| 2/16/2022 | | | 0.601 (U) | | | |
| 2/21/2022 | | | | | | 0.134 (U) |
| 7/19/2022 | | | | | | 1.03 |
| 7/20/2022 | | | 0.473 (U) | | | |
| 7/25/2022 | | | | 0.513 (U) | 0.455 (U) | |
| 8/9/2022 | | 0.458 (U) | | | | |
| 8/10/2022 | 0.395 (U) | | | | | |
| Mean | 0.5848 | 0.6865 | 0.5958 | 0.6841 | 0.8934 | 0.4842 |
| Std. Dev. | 0.2393 | 0.2212 | 0.2777 | 0.2815 | 0.477 | 0.4022 |
| Upper Lim. | 0.8384 | 0.9904 | 1.226 | 0.9825 | 1.399 | 1.037 |
| Lower Lim. | 0.3311 | 0.3826 | -0.03466 | 0.3857 | 0.3877 | -0.06831 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|------------|
| 2/21/2019 | | 0.205 | | | | | | |
| 4/16/2019 | 0.188 | | | | | | | |
| 4/17/2019 | | | 0.463 | | 0.171 | | 0.27 | |
| 9/23/2019 | | | | | | 0.351 | | |
| 9/24/2019 | | | 0.628 | | 0.124 | | 0.307 | |
| 9/25/2019 | 0.168 | 0.185 | | | | | | 0.86 |
| 3/16/2020 | | | | | | 0.261 | | |
| 3/18/2020 | 0.122 | | 0.647 | 0.243 | | | | |
| 3/24/2020 | | 0.155 | | | 0.109 | | 0.327 | |
| 3/25/2020 | | | | | | | | 0.855 |
| 5/12/2020 | | | | | | 0.263 | | |
| 5/13/2020 | | | | | | | | 0.777 |
| 9/21/2020 | | | | 0.372 | | 0.371 | | |
| 9/22/2020 | | | | | 0.123 | | 0.339 | 0.921 |
| 9/23/2020 | 0.12 | 0.176 | 0.452 | | | | | |
| 2/1/2021 | 0.126 | 0.169 | | | | | | 0.865 |
| 2/2/2021 | | | | | | 0.276 | | |
| 2/8/2021 | | | | | | | 0.319 | |
| 2/9/2021 | | | 0.591 | 0.329 | | | | |
| 2/10/2021 | | | | | 0.103 | | | |
| 8/3/2021 | | | 0.615 | 0.278 | | 0.3 | | |
| 8/4/2021 | | | | | | | | 0.932 |
| 8/9/2021 | 0.139 | 0.187 | | | 0.131 | | | |
| 8/10/2021 | | | | | | | 0.283 | |
| 2/14/2022 | | | | | | 0.206 | | |
| 2/15/2022 | | | | | 0.114 | | | |
| 2/16/2022 | | | 0.349 | 0.208 | | | | |
| 2/22/2022 | | | | | | | 0.259 | 0.819 |
| 2/23/2022 | | 0.153 | | | | | | |
| 2/28/2022 | 0.12 | | | | | | | |
| 7/19/2022 | 0.0983 (J) | | | | | | | 0.752 |
| 7/20/2022 | | 0.18 | | | | | | |
| 8/2/2022 | | | 0.373 | 0.206 | 0.112 (J) | | | |
| 8/3/2022 | | | | | | | 0.231 | |
| 8/8/2022 | | | | | | 0.257 | | |
| Mean | 0.1352 | 0.1763 | 0.5148 | 0.2727 | 0.1234 | 0.2856 | 0.2919 | 0.8476 |
| Std. Dev. | 0.02918 | 0.01723 | 0.1197 | 0.06719 | 0.02127 | 0.05364 | 0.03735 | 0.0632 |
| Upper Lim. | 0.1661 | 0.1945 | 0.6417 | 0.365 | 0.1441 | 0.3425 | 0.3315 | 0.9146 |
| Lower Lim. | 0.1042 | 0.158 | 0.3878 | 0.1804 | 0.1033 | 0.2288 | 0.2523 | 0.7806 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-3 | GS-AP-MW-6D | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|------------|-------------|-------------|-------------|
| 4/16/2019 | | | | 0.156 | | |
| 4/17/2019 | 0.272 | | | | | |
| 4/23/2019 | | | | | 0.111 | |
| 9/23/2019 | | | | 0.132 | | |
| 9/24/2019 | 0.209 | | | | 0.106 | |
| 3/17/2020 | | | | 0.132 | 0.107 | |
| 3/18/2020 | 0.234 | | | | | |
| 3/23/2020 | | 0.494 | | | | 0.187 |
| 9/16/2020 | | | | | 0.126 | |
| 9/17/2020 | | | | 0.133 | | |
| 9/22/2020 | | | | | | 0.174 |
| 9/23/2020 | 0.208 | 0.641 | | | | |
| 2/2/2021 | | | | | 0.124 | 0.183 |
| 2/3/2021 | | | | 0.135 | | |
| 2/8/2021 | 0.203 | | | | | |
| 2/9/2021 | | 0.546 | | | | |
| 2/17/2021 | | | 0.1 | | | |
| 7/27/2021 | | | | 0.127 | | |
| 8/3/2021 | | | 0.102 | | | |
| 8/4/2021 | 0.24 | | | | | |
| 8/9/2021 | | | | | 0.11 | |
| 8/10/2021 | | | | | | 0.166 |
| 8/11/2021 | | 0.41 | | | | |
| 2/8/2022 | 0.175 | 0.398 | | | 0.0872 (JD) | |
| 2/14/2022 | | | | 0.108 | | |
| 2/16/2022 | | | <0.125 | | | |
| 2/21/2022 | | | | | | 0.177 |
| 7/19/2022 | | | | | | 0.159 |
| 7/20/2022 | | | <0.125 | | | |
| 7/25/2022 | | | | 0.0978 (JD) | 0.0896 (JD) | |
| 8/9/2022 | | 0.406 | | | | |
| 8/10/2022 | 0.186 | | | | | |
| Mean | 0.2159 | 0.4825 | 0.08175 | 0.1276 | 0.1076 | 0.1743 |
| Std. Dev. | 0.03139 | 0.0975 | 0.02224 | 0.01774 | 0.01398 | 0.01046 |
| Upper Lim. | 0.2492 | 0.6164 | 0.102 | 0.1464 | 0.1224 | 0.1887 |
| Lower Lim. | 0.1826 | 0.3486 | 0.0625 | 0.1088 | 0.09278 | 0.16 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-6D | GS-AP-MW-7 |
|------------|--------------|--------------|--------------|--------------|--------------|-------------|
| 2/21/2019 | <0.000203 | | | | | |
| 4/16/2019 | | | | | <0.000203 | |
| 4/17/2019 | | <0.000203 | <0.000203 | | | |
| 4/23/2019 | | | | | | 0.00207 (J) |
| 9/23/2019 | | | | <0.000203 | <0.000203 | |
| 9/24/2019 | | <0.000203 | <0.000203 | | | <0.000203 |
| 9/25/2019 | <0.000203 | | | | | |
| 3/16/2020 | | | | <0.000203 | | |
| 3/17/2020 | | | | | <0.000203 | 0.00386 (J) |
| 3/18/2020 | | <0.000203 | | | | |
| 3/24/2020 | 0.00279 (J) | | <0.000203 | | | |
| 5/12/2020 | | | | <0.000203 | | |
| 9/16/2020 | | | | | | 0.00295 (J) |
| 9/17/2020 | | | | | <0.000203 | |
| 9/21/2020 | | | | <0.000203 | | |
| 9/22/2020 | | | <0.000203 | | | |
| 9/23/2020 | 0.0014 (J) | <0.000203 | | | | |
| 2/1/2021 | 0.0013 | | | | | |
| 2/2/2021 | | | | 0.000175 (J) | | 0.00243 |
| 2/3/2021 | | | | | <0.000203 | |
| 2/9/2021 | | 8.74E-05 (J) | | | | |
| 2/10/2021 | | | 0.000873 | | | |
| 7/27/2021 | | | | | <0.000203 | |
| 8/3/2021 | | 8E-05 (J) | | <0.000203 | | |
| 8/9/2021 | 0.00048 | | 0.00016 (J) | | | 0.00119 |
| 2/8/2022 | | | | | | 0.0008 |
| 2/14/2022 | | | | <0.000203 | <0.000203 | |
| 2/15/2022 | | | <0.000203 | | | |
| 2/16/2022 | | <0.000203 | | | | |
| 2/23/2022 | 0.00019 (J) | | | | | |
| 7/20/2022 | <0.000203 | | | | | |
| 7/25/2022 | | | | | 0.000171 (J) | 0.000431 |
| 8/2/2022 | | <0.000203 | <0.000203 | | | |
| 8/8/2022 | | | | <0.000203 | | |
| Mean | 0.0008461 | 0.0001732 | 0.0002814 | 0.0001995 | 0.000199 | 0.001742 |
| Std. Dev. | 0.0009333 | 5.526E-05 | 0.0002395 | 9.899E-06 | 1.131E-05 | 0.001299 |
| Upper Lim. | 0.00279 | 0.000203 | 0.000873 | 0.000203 | 0.000203 | 0.003118 |
| Lower Lim. | 0.00019 | 8E-05 | 0.00016 | 0.000175 | 0.000171 | 0.0003653 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|------------|
| 2/21/2019 | | 0.0468 | | | | | | |
| 4/16/2019 | 0.0261 | | | | | | | |
| 4/17/2019 | | | 0.19 | | 0.0349 | | 0.0429 | |
| 9/23/2019 | | | | | | 0.0583 | | |
| 9/24/2019 | | | 0.469 | | 0.0362 | | 0.0392 | |
| 9/25/2019 | 0.028 | 0.0611 | | | | | | 0.0457 |
| 3/16/2020 | | | | | | 0.0665 | | |
| 3/18/2020 | 0.0297 | | 0.378 | 0.208 | | | | |
| 3/24/2020 | | 0.0462 | | | 0.035 | | 0.0417 | |
| 3/25/2020 | | | | | | | | 0.0434 |
| 5/12/2020 | | | | | | 0.0602 | | |
| 5/13/2020 | | | | | | | | 0.0409 |
| 9/21/2020 | | | | 0.116 | | 0.0579 | | |
| 9/22/2020 | | | | | 0.0343 | | 0.0435 | 0.0395 |
| 9/23/2020 | 0.0279 | 0.0409 | 0.414 | | | | | |
| 2/1/2021 | 0.0249 | 0.0384 | | | | | | 0.0445 |
| 2/2/2021 | | | | | | 0.0634 | | |
| 2/8/2021 | | | | | | | 0.0368 | |
| 2/9/2021 | | | 0.493 | 0.122 | | | | |
| 2/10/2021 | | | | | 0.0376 | | | |
| 8/3/2021 | | | 0.536 | 0.0986 | | 0.068 | | |
| 8/4/2021 | | | | | | | | 0.0443 |
| 8/9/2021 | 0.0354 | 0.0398 | | | 0.0326 | | | |
| 8/10/2021 | | | | | | | 0.0305 | |
| 2/14/2022 | | | | | | 0.0572 | | |
| 2/15/2022 | | | | | 0.033 | | | |
| 2/16/2022 | | | 0.263 | 0.0788 | | | | |
| 2/22/2022 | | | | | | | 0.0266 | 0.0354 |
| 2/23/2022 | | 0.0279 | | | | | | |
| 2/28/2022 | 0.0523 | | | | | | | |
| 7/19/2022 | 0.0631 | | | | | | | 0.033 |
| 7/20/2022 | | 0.0309 | | | | | | |
| 8/2/2022 | | | 0.529 | 0.096 | 0.0343 | | | |
| 8/3/2022 | | | | | | | 0.0416 | |
| 8/8/2022 | | | | | | 0.0646 | | |
| Mean | 0.03593 | 0.0415 | 0.409 | 0.1199 | 0.03474 | 0.06201 | 0.03785 | 0.04084 |
| Std. Dev. | 0.0141 | 0.01031 | 0.1262 | 0.04582 | 0.001621 | 0.00417 | 0.006209 | 0.004604 |
| Upper Lim. | 0.0631 | 0.05243 | 0.5427 | 0.1812 | 0.03646 | 0.06643 | 0.04394 | 0.04572 |
| Lower Lim. | 0.0249 | 0.03057 | 0.2753 | 0.0665 | 0.03302 | 0.05759 | 0.03165 | 0.03596 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-3 | GS-AP-MW-6D | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|------------|-------------|------------|-------------|
| 4/16/2019 | | | | 0.267 | | |
| 4/17/2019 | 0.312 | | | | | |
| 4/23/2019 | | | | | 0.144 | |
| 9/23/2019 | | | | 0.264 | | |
| 9/24/2019 | 0.276 | | | | 0.156 | |
| 3/17/2020 | | | | 0.292 | 0.161 | |
| 3/18/2020 | 0.379 | | | | | |
| 3/23/2020 | | 0.146 | | | | 0.0309 |
| 9/16/2020 | | | | | 0.16 | |
| 9/17/2020 | | | | 0.299 | | |
| 9/22/2020 | | | | | | 0.0293 |
| 9/23/2020 | 0.179 | 0.137 | | | | |
| 2/2/2021 | | | | | 0.183 | 0.0299 |
| 2/3/2021 | | | | 0.312 | | |
| 2/8/2021 | 0.239 | | | | | |
| 2/9/2021 | | 0.124 | | | | |
| 2/17/2021 | | | 0.0995 | | | |
| 7/27/2021 | | | | 0.326 | | |
| 8/3/2021 | | | 0.088 | | | |
| 8/4/2021 | 0.213 | | | | | |
| 8/9/2021 | | | | | 0.205 | |
| 8/10/2021 | | | | | | 0.031 |
| 8/11/2021 | | 0.048 | | | | |
| 2/8/2022 | 0.0996 | 0.0835 | | | 0.203 | |
| 2/14/2022 | | | | 0.302 | | |
| 2/16/2022 | | | 0.0732 | | | |
| 2/21/2022 | | | | | | 0.0293 |
| 7/19/2022 | | | | | | 0.029 |
| 7/20/2022 | | | 0.07 | | | |
| 7/25/2022 | | | | 0.348 | 0.227 | |
| 8/9/2022 | | 0.0789 | | | | |
| 8/10/2022 | 0.0868 | | | | | |
| Mean | 0.2231 | 0.1029 | 0.08268 | 0.3013 | 0.1799 | 0.0299 |
| Std. Dev. | 0.1008 | 0.03855 | 0.01369 | 0.0282 | 0.02929 | 0.0008649 |
| Upper Lim. | 0.3299 | 0.1559 | 0.1137 | 0.3311 | 0.2109 | 0.03109 |
| Lower Lim. | 0.1162 | 0.04994 | 0.0516 | 0.2714 | 0.1488 | 0.02871 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-12 | GS-AP-MW-12V | GS-AP-MW-15 | GS-AP-MW-15V | GS-AP-MW-16D | GS-AP-MW-17 | GS-AP-MW-19 | GS-AP-MW-2 |
|------------|-------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|
| 2/21/2019 | | 0.00253 (J) | | | | | | |
| 4/16/2019 | <0.01 | | | | | | | |
| 4/17/2019 | | | 0.029 | | <0.01 | | 0.00703 (J) | |
| 9/23/2019 | | | | | | 0.011 | | |
| 9/24/2019 | | | 0.0597 | | <0.01 | | 0.00562 (J) | |
| 9/25/2019 | <0.01 | 0.00942 (J) | | | | | | 0.00803 (J) |
| 3/16/2020 | | | | | | 0.00504 (J) | | |
| 3/18/2020 | 0.00444 (J) | | 0.0673 | 0.0327 | | | | |
| 3/24/2020 | | 0.00454 (J) | | | <0.01 | | 0.00605 (J) | |
| 3/25/2020 | | | | | | | | 0.00343 (J) |
| 5/12/2020 | | | | | | 0.00436 (J) | | |
| 5/13/2020 | | | | | | | | 0.00224 (J) |
| 9/21/2020 | | | | 0.0538 | | 0.00776 (J) | | |
| 9/22/2020 | | | | | <0.01 | | 0.0063 (J) | 0.00308 (J) |
| 9/23/2020 | 0.00577 (J) | 0.00463 (J) | 0.0744 | | | | | |
| 2/1/2021 | 0.00792 | 0.00164 | | | | | | 0.00427 |
| 2/2/2021 | | | | | | 0.00538 | | |
| 2/8/2021 | | | | | | | 0.00366 | |
| 2/9/2021 | | | 0.0644 | 0.0522 | | | | |
| 2/10/2021 | | | | | 0.00014 (J) | | | |
| 8/3/2021 | | | 0.0663 | 0.0311 | | 0.00157 | | |
| 8/4/2021 | | | | | | | | 0.00168 |
| 8/9/2021 | 0.00452 | 0.00302 | | | 0.00069 | | | |
| 8/10/2021 | | | | | | | 0.00269 | |
| 2/14/2022 | | | | | | 0.00252 | | |
| 2/15/2022 | | | | | 0.00032 | | | |
| 2/16/2022 | | | 0.0306 | 0.0272 | | | | |
| 2/22/2022 | | | | | | | 0.00267 | 0.00327 |
| 2/23/2022 | | 0.00144 | | | | | | |
| 2/28/2022 | 0.00903 | | | | | | | |
| 7/19/2022 | 0.0112 | | | | | | | 0.00146 |
| 7/20/2022 | | 0.00204 | | | | | | |
| 8/2/2022 | | | 0.0642 | 0.0295 | 0.000984 | | | |
| 8/3/2022 | | | | | | | 0.00355 | |
| 8/8/2022 | | | | | | 0.00154 | | |
| Mean | 0.00661 | 0.003658 | 0.05699 | 0.03775 | 0.002767 | 0.004896 | 0.004696 | 0.003433 |
| Std. Dev. | 0.002496 | 0.002624 | 0.01728 | 0.01196 | 0.0024 | 0.003251 | 0.001741 | 0.002083 |
| Upper Lim. | 0.009401 | 0.006133 | 0.07173 | 0.0538 | 0.005 | 0.008342 | 0.006542 | 0.005443 |
| Lower Lim. | 0.004536 | 0.001371 | 0.04351 | 0.0272 | 0.00014 | 0.001451 | 0.002851 | 0.001553 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/4/2022 11:58 AM View: Appendix IV - Confidence Intervals

Plant Gorgas Client: Southern Company Data: Gorgas Ash Pond

| | GS-AP-MW-21 | GS-AP-MW-21V | GS-AP-MW-3 | GS-AP-MW-6D | GS-AP-MW-7 | GS-AP-MW-9V |
|------------|-------------|--------------|------------|-------------|------------|-------------|
| 4/16/2019 | | | | 0.00747 (J) | | |
| 4/17/2019 | 0.0885 | | | | | |
| 4/23/2019 | | | | | 0.185 | |
| 9/23/2019 | | | | 0.00758 (J) | | |
| 9/24/2019 | 0.0613 | | | | 0.178 | |
| 3/17/2020 | | | | 0.00959 (J) | 0.193 | |
| 3/18/2020 | 0.102 | | | | | |
| 3/23/2020 | | 0.117 | | | | <0.01 |
| 9/16/2020 | | | | | 0.215 | |
| 9/17/2020 | | | | 0.00924 (J) | | |
| 9/22/2020 | | | | | | <0.01 |
| 9/23/2020 | 0.0404 | 0.12 | | | | |
| 2/2/2021 | | | | | 0.202 | 0.000538 |
| 2/3/2021 | | | | 0.0095 | | |
| 2/8/2021 | 0.0396 | | | | | |
| 2/9/2021 | | 0.0983 | | | | |
| 2/17/2021 | | | 0.0113 | | | |
| 7/27/2021 | | | | 0.0101 | | |
| 8/3/2021 | | | 0.00977 | | | |
| 8/4/2021 | 0.0367 | | | | | |
| 8/9/2021 | | | | | 0.207 | |
| 8/10/2021 | | | | | | 0.00269 |
| 8/11/2021 | | 0.0394 | | | | |
| 2/8/2022 | 0.0153 | 0.0819 | | | 0.221 | |
| 2/14/2022 | | | | 0.0115 | | |
| 2/16/2022 | | | 0.00722 | | | |
| 2/21/2022 | | | | | | 0.0022 |
| 7/19/2022 | | | | | | 0.00146 |
| 7/20/2022 | | | 0.0066 | | | |
| 7/25/2022 | | | | 0.011 | 0.214 | |
| 8/9/2022 | | 0.0509 | | | | |
| 8/10/2022 | 0.00802 | | | | | |
| Mean | 0.04898 | 0.08458 | 0.008723 | 0.009498 | 0.2019 | 0.002815 |
| Std. Dev. | 0.03306 | 0.03369 | 0.002199 | 0.001439 | 0.01533 | 0.001842 |
| Upper Lim. | 0.08402 | 0.1309 | 0.01371 | 0.01102 | 0.2181 | 0.002837 |
| Lower Lim. | 0.01394 | 0.0383 | 0.003731 | 0.007972 | 0.1856 | 0.0006068 |